CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, June 29, 1905.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
June				
*20	Pumping machinery, etc.	Toledo, O.	S.	6- 1
*20	Sewers.	Torrington, Conn.	S & B. S.	6-15
21	Bridge.	No. Adams, Mass.	P. & S.	6-15
*23	Pipe and specials.	Winnipeg, Man.	S.	6-15
July				
*1	Municipal building.	Washington, D. C.	S.	6- 1
*1	Paving.	Helena, Ark.	P. & S.	6-15
*1	Street railways.	Chicago, Ill.	P. & S.	4-13
1	Cables.	Philadelphia, Pa.	S.	6-22
1	Dredging.	Washington, D. C.	S.	6-15
*3	Sewer system.	Gettysburg, Pa.	P.	6-15
*3	Reservoir.	Winnipeg, Man.	S.	6- 1
*6	Light plant, w.-w.	Arcanum, O.	P.	6-29
*7	Bridge.	Reading, Pa.	P. & S.	6-29
*6	Light plant, w.-w.	Arcanum, O.	P. & S.	6-29
*7	Conduit.	Chicago, Ill.	P. & S.	6-15
15	Cutaway.	Pensacola, Fla.	S.	6-15
15	Coaling plant.	Pensacola, Fla.	S.	6-15
15	Paving.	Boston, Mass.	S.	6-29
15	Power house.	Pensacola, Fla.	S.	6-22
*25	Sewerage system.	Laurens, S. C.	S.	6-29
29	Dredging.	Bremerton, Wash.	S.	6-22
Aug.				
*7	Dike.	Los Angeles, Cal.	P. & S.	6-22
26	Coaling plant.	Philippines.	S.	5- 4
Sept.				
1	Steel manufacture.	New S. Wales.	S.	3-23

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS

July 1. Power stations, Oswego, N. Y. ..... June 29
July 5. Electric light plant, Youngstown, O. ..... June 22
Advertised, Eng. News, June 22 and 29.
July 5. Lighting city, N. Tonawanda, N. Y. ..... June 29
July 6. Gas lighting, W. Minneapolis, Minn. ..... June 29
July 6. Electric plant, Arcanum, O. ..... June 29
Advertised, Eng. News, June 29 and July 6.
July 12. Apparatus, etc., Pittsburg, Kan. ..... June 29
Advertised, Eng. News, June 29 and July 6.
July 15. Power plant, Pensacola, Fla. ..... June 22
No date. Power dam, etc., Charlestown, W. Va. ..... June 29
Advertised, Eng. News, June 29 and July 6.

BRIDGES.

June 29. Pile bridge, Casper, Wyo. ..... June 22
June 29. Bridges, Crysler, Ont. ..... June 22
June 29. Bridge, Paterson, N. J. ..... June 22
June 29. Bridge, Lima, O. ..... June 22
June 30. Bridges, Reading, Pa. ..... June 22
Advertised, Eng. News, June 22.
June 30. Drawbridge, Rutherford, N. J. ..... June 29
July 1. Bridge, steel, Bracebridge, Ont. ..... June 29
July 3. Bridge and abutments, Delphi, Ind. ..... June 29
July 3. Culverts, Lawrence, Kan. ..... June 29
July 3. Drawbridge, steel, Minot, N. Dak. ..... June 29
July 3. Bridge, Wehatchee, Wash. ..... June 29
July 3. Bridges, Holly Springs, Ga. ..... June 29
July 3. Bridge, iron, Natchitoches, La. ..... June 8
July 5. Wagon bridges, Vale, Ore. ..... June 1
July 5. Bridge, Tillamook, Ore. ..... May 25
July 5. Bridges, Plymouth, Ind. ..... June 15
July 5. Bridge, Fossil, Ore. ..... June 15
July 5. Bridges, steel, Jacksonville, Fla. ..... June 22
July 5. Bridges, Spartanburg, S. C. ..... June 22
July 5. Bridge, Martinsville, Ind. ..... June 29
July 6. Bridge, Weaverville, Cal. ..... June 22
July 6. Bridges, steel, Alpharetta, Ga. ..... June 29
July 6. Bridge, Pikeville, Ky. ..... June 22
July 6. Bridge, Redding, Cal. ..... May 25
July 6. Bridges, Lawrenceville, Ga. ..... June 1
July 7. Bridge, Reading, Pa. ..... June 29
Advertised, Eng. News, June 29.
July 7. Bridge, Yreka, Cal. ..... June 29
July 8. Bridge, steel, Independence, Mo. ..... June 29
July 8. Bridge, Portland, Me. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 8. Bridges, Terre Haute, Ind. ..... June 15
July 10. Arch, Sandusky, O. ..... June 29
July 10. Bridge, Port Clinton, O. ..... June 29
July 10. Bridge, steel, Wellington, Kan. ..... June 29
July 10. Approach, Williamsport, Ind. ..... June 29
July 11. Bridge, steel, Castlewood, S. Dak. ..... June 8
July 12. Piers and abutments, Providence, R. I. ..... June 29
Advertised, Eng. News, June 29 and July 6.
July 14. Bridges, Owen Sound, Ont. ..... June 22
July 18. Concrete arches, Anderson, Ind. ..... June 29
July 18. Bridges, Marietta, O. ..... June 29

BUILDINGS.

June 29. Hospital, Washington, D. C. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 29. Building, Washington, D. C. ..... June 8
Advertised, Eng. News, June 8 to July 6.
June 29. Buildings, Indianapolis, Ind. ..... June 15
July 1. Hall, Atlantic City, N. J. ..... June 8
July 1. Municipal building, Washington, D. C. ..... May 25
Advertised, Eng. News, May 25 to July 7.
July 1. Court-house, Wallace, Idaho ..... May 18
July 1. Court-house, Globe, Ariz. ..... June 22
July 3. Court-house and jail, Leesville, La. ..... May 11
July 3. School, Midland Park, N. J. ..... June 29
July 3. School, Albany, N. Y. ..... June 29
July 3. Court-house, Mt. Vernon, Ga. ..... June 29
July 5. Buildings, New York, N. Y. ..... June 29
July 6. Capitol building, Montgomery Ala. ..... June 1
July 8. School, Poland, O. ..... June 22
July 10. Court-house, Wallace, Idaho ..... June 22
July 10. School, New York, N. Y. ..... June 29
July 10. Building, Indianapolis, Ind. ..... June 29
July 11. Heating and ventilating, Ironton, O. ..... June 29
July 11. School, Indianapolis, Ind. ..... June 29
July 11. Hospital, Goshen, Ind. ..... June 8
July 11. Wiring, Lincoln, Neb. ..... June 15
July 12. Heating apparatus, Deadwood, S. Dak. ..... June 15
July 12. Engine house, Bucyrus, O. ..... June 29
July 13. Jail, Ladysmith, Wis. ..... June 22
July 15. Building, Pensacola, Fla. ..... June 15
July 17. School, Harshman, O. ..... June 29
July 18. Schools, Youngstown, O. ..... June 29
July 18. Buildings, Wahpeton, N. Dak. ..... June 15
July 20. Court-house, Manhattan, Kan. ..... June 29
July 20. Custom-house, San Francisco, Cal. ..... June 8
Advertised, Eng. News, June 1 and 8.
July 22. Hospital, New Orleans, La. ..... June 15
Advertised, Eng. News, June 15 and 22.
July 24. Post-office, Fargo, N. Dak. ..... June 22
Advertised, Eng. News, June 22 and 29.
July 24. School, Morning Sun, Ia. ..... June 29
July 25. Post-office, Muncie, Ind. ..... June 22
July 26. Post-office, Spartanburg, S. C. ..... June 22
July 27. Buildings, Fort Totten, N. Dak. ..... June 29
Aug. 5. Joiner shop (Mfg. Plants), Puget Sound Wash. ..... June 29
Aug. 7. Post-office, Adrian, Mich. ..... June 29
Aug. 9. Library, Bloomington, Ind. ..... June 29
Aug. 9. Building, etc., Chicago, Ill. ..... June 22
Sept. 14. Hotel, Little Rock, Ark. ..... June 22

WATER SUPPLY AND IRRIGATION.

June 29. Water-works, elec. plant, Melrose, Minn. ..... June 22
June 30. Water pipe, Eldora, Ia. ..... June 22
Advertised, Eng. News, June 22.
June 30. Pumping machinery, etc., Toledo, O. ..... June 1
Advertised, Eng. News, June 1 to 22.
June 30. Water-works, Mt. Olive, Ill. ..... June 15
Advertised, Eng. News, June 15.
June 30. Pipe and specials, Kansas City, Mo. ..... June 15
Advertised, Eng. News, June 15 to July 6.
July 1. Pump station, Oswego, N. Y. ..... June 29
July 3. Pumps, tank, etc., Danforth, Ill. ..... June 29
July 3. Standpipe, Yankton, S. Dak. ..... June 29
July 3. Reservoir, Winnipeg, Man. ..... June 1
Advertised, Eng. News, June 1 to 22.
July 4. Water pipe, etc., Glace Bay, N. S. ..... June 29
July 5. Water pipe, San Jose, Cal. ..... June 29
July 5. Pipe laying, Two Rivers, Wis. ..... June 29
July 5. Pipe and castings, New York, N. Y. ..... June 29
July 5. Hydrants, New York, N. Y. ..... June 22
July 5. Pipe, Spokane, Wash. ..... June 22
July 7. Water main, Halsted, Minn. ..... June 22
Aug. 8. Water-works, Columbia, S. C. ..... June 29
July 8. Water-works, Columbia, S. C. ..... June 29
Advertised, Eng. News, June 29 to July 27.
July 10. Water-works, Whittier, Cal. ..... June 29
July 11. Water-works improvements, Tama, Ia. ..... June 29
July 11. Artesian well, Redfield, S. Dak. ..... June 29
July 11. Water-works, Slatington, Pa. ..... June 29
Advertised, Eng. News, June 29 and July 6.
July 17. Water-works, Bishopville, S. C. ..... June 8
Advertised, Eng. News, June 22 to July 20.
July 18. Mains, reservoir, Havre, Mont. ..... June 22
July 19. Pumps, engines, etc., Washington, D. C. ..... June 22
July 19. Pumps, New York, N. Y. ..... June 29

SEWERAGE.

June 29. Sewers, La Grange, Ill. ..... June 22
June 29. Sewer, So. Milwaukee, Wis. ..... June 22
July 1. Sewer, Bridgeport, Conn. ..... June 15
Advertised, Eng. News, June 15 and 22.
July 1. Sewer system, St. Charles, Mo. ..... June 15
July 1. Sewers, Morganton, N. C. ..... June 1
July 1. Sewers, Chillicothe, O. ..... June 29
July 3. Sewer system, Gettysburg, Pa. ..... June 15
Advertised, Eng. News, June 15 to July 6.
July 3. Sewer, Stephan, S. Dak. ..... June 22
July 3. Lateral sewer, Brainerd, Minn. ..... June 15
July 4. Lateral sewers, Brainerd, Minn. ..... June 15
July 5. Pipe sewer, Cincinnati, O. ..... June 22
July 5. Sewers, Rensselaer, N. Y. ..... June 29
July 5. Sewer, Lafayette, Ind. ..... June 29
July 6. Water sewer, Waco, Tex. ..... June 29
July 6. Tile sewer, Buffalo, N. Y. ..... June 29
July 6. Sewer, Columbus, Ind. ..... June 29
Advertised, Eng. News, June 29.
July 7. Sewers, Abilene, Kan. ..... June 15
Advertised, Eng. News, June 15.
July 8. Sewers, Marshall, Minn. ..... June 29
July 8. Sewers, Seattle, Wash. ..... June 29
July 8. Sanitary sewers, Macon, Ga. ..... June 22
July 11. Sewers, etc., Franklin, Ind. ..... June 29
July 11. Sanitary sewer, Ashland, Wis. ..... June 29
July 12. Sewers, St. Bernard, O. ..... June 29
July 13. Sewers, Mamaroneck, N. Y. ..... June 22
Advertised, Eng. News, June 22 to July 13.
July 17. Sewerage system, Groton, S. Dak. ..... June 29
July 17. Sewers, Westfield, Mass. ..... June 29
Advertised, Eng. News, June 29.
July 21. Sewer, Utica, N. Y. ..... June 15
Advertised, Eng. News, June 15 to July 20.
July 22. Sewers, Ogden, Utah. ..... June 29
July 25. Sewers, Laurens, S. C. ..... June 29
Advertised, Eng. News, June 29 to July 20.
Aug. 5. Sewers, Alliance, O. ..... June 29
No date. Sewer, North Platte, Neb. ..... June 29
Advertised, Eng. News, June 29.

STREETS AND ROADS.

June 29. Cement walks, etc., Crawfordsville, Ind. ..... June 22
June 29. Asphalt paving blocks, New York, N. Y. ..... June 22
June 29. Paving, New York, N. Y. ..... June 22
July 1. Paving, Trinidad, Colo. ..... June 22
July 1. Paving, Helena, Ark. ..... June 15
Advertised, Eng. News, June 15 to July 6.
July 1. Paving, brick, Cleveland, O. ..... June 8
July 1. Paving and curbing, Chillicothe, Mo. ..... June 29
July 1. Macadamizing, Haledon, N. J. ..... June 29
July 3. Road, Trenton, N. J. ..... June 29
July 3. Road, Vernon, Ind. ..... June 29
July 3. Macadamizing, Lawrence, Kan. ..... June 29
July 3. Curbing, etc., Oneonta, N. Y. ..... June 29
July 3. Paving, Perth Amboy, N. J. ..... June 22
July 3. Paving, Woodville, O. ..... June 22
July 3. Roads, Greensburg, Ind. ..... June 22
July 3. Roads, Greencastle, Ind. ..... June 22
July 3. Roads, Mt. Holly, N. J. ..... June 22
July 5. Road, gravel, Logansport, Ind. ..... June 22
July 5. Roads, Paoli, Ind. ..... June 22
July 5. Roads, Knox, Ind. ..... June 22
July 5. Paving, Emlenton, Pa. ..... June 15
Advertised, Eng. News, June 15.
July 5. Paving, asphalt, Cincinnati, O. ..... June 15
July 5. Macadamizing, Leonia, N. J. ..... June 29
July 5. Walks, etc., New York, N. Y. ..... June 22
July 5. Paving, etc., Brooklyn, N. Y. ..... June 29
July 6. Roads, Pittsburg, Pa. ..... June 29
July 6. Paving, asphalt, New York, N. Y. ..... June 29
July 6. Gravel, New York, N. Y. ..... June 29
July 6. Paving, Charlotte, Mich. ..... June 29
July 7. Paving, asphalt, Des Moines, Ia. ..... June 29
July 7. Paving, asphalt, Buffalo, N. Y. ..... June 29
July 7. Paving and curbing, Clarinda, La. ..... June 29
Advertised, Eng. News, June 29.
July 7. Road, Roselle, N. J. ..... June 29
July 7. Grading, etc., Monroe, Wis. ..... June 22
July 7. Road, Vincennes, Ind. ..... June 22
July 8. Grading, Seattle, Wash. ..... June 29
July 8. Paving and sewers, Seattle, Wash. ..... June 29
July 8. Road, Harrisburg, Pa. ..... June 29
July 8. Paving, Beloit, Wis. ..... June 22
July 10. Paving, Long Island City, N. Y. ..... June 29
July 10. Walks, Long Island City, N. Y. ..... June 29
July 10. Cement walks, Wabash, Ind. ..... June 29
July 11. Paving, Ashland, O. ..... June 29
July 11. Grading, Cleveland Heights, O. ..... June 22
July 11. Paving, brick, Peekskill, N. Y. ..... June 22
Advertised, Eng. News, June 22.
July 12. Stone road, Freehold, N. J. ..... June 22
Advertised, Eng. News, June 22 to July 13.
July 12. Roads, Providence, R. I. ..... June 29
July 15. Road, Crown Point, Ind. ..... June 29
July 15. Paving, Boston, Mass. ..... June 29
July 17. Paving, Bridgeport, Conn. ..... June 29
Advertised, Eng. News, June 29 and July 6.
July 20. Stone, Washington, D. C. ..... June 22
Advertised, Eng. News, June 22 to July 20.
July 27. Paving, Xenia, O. ..... June 29
Aug. 8. Paving, Shreveport, La. ..... June 29
Advertised, Eng. News, June 29 to Aug. 10.
No date. Graveling, Grand Rapids, Mich. ..... June 29
No date. Cement walks, Osceola, Ia. ..... June 29

MISCELLANEOUS CONTRACTS.

June 29. Sand bins, Washington, D. C. ..... June 15
June 29. Ditch work, Prophetstown, Ill. ..... June 15
Advertised, Eng. News, June 15 to 29.
June 29. Grading, Lynn, Mass. ..... June 22
June 30. Dredging, Portland, Me. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 30. Dredging, Savannah, Ga. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 30. Tug boat, Washington, D. C. ..... June 8
June 30. Portland cement, Cincinnati, O. ..... June 8
July 1. Dredging, etc., Jacksonville, Fla. ..... June 8
Advertised, Eng. News, June 8 to 29.
July 1. Dredging, Montgomery, Ala. ..... June 8
Advertised, Eng. News, June 8 to 29.
July 1. Power dredge, Chicago, Ill. ..... June 1
Advertised, Eng. News, June 1 to 22.
July 1. Underground cables, Washington, D. C. ..... June 15
July 1. Dredging, Washington, D. C. ..... June 15
July 1. Street railway, Chicago, Ill. ..... Apr 13
Advertised, Eng. News, April 13 to May 11.
July 1. Cables, Philadelphia, Pa. ..... June 22
July 1. Mining work, Loomis, Wash. ..... June 22
July 3. Garbage disposal, Port Chester, N. Y. ..... June 22
July 3. Dam, cribs, etc., Mobile, Ala. ..... June 8
Advertised, Eng. News, June 8 to 29.
July 3. Dredging, etc., Norfolk, Va. ..... June 8
Advertised, Eng. News, June 8 and 15.
July 3. Bear trap gates, Pittsburg, Pa. ..... June 8
Advertised, Eng. News, June 8 to 29.
July 5. Dredging, Baltimore, Md. ..... June 8
Advertised, Eng. News, June 8 to 29.
No date. Railway grading, Baltimore, Md. ..... June 15
Advertised, Eng. News, June 15 to July 6.
July 5. Dynamite, doors, etc., Washington, D. C. ..... June 15
July 5. Quarry spalls, New Orleans, La. ..... June 22
July 5. Lamps, cement, etc., Washington, D. C. ..... June 22
July 5. Searchlight outfits, Washington, D. C. ..... June 22
Advertised, Eng. News, June 22 and 29.
July 5. Boiler, New York, N. Y. ..... June 29
July 5. Garbage crematory, New York, N. Y. ..... June 29
July 6. Grass sod, gravel, New York, N. Y. ..... June 29
July 6. Dredging, Wilmington, Del. ..... June 8
Advertised, Eng. News, June 8 to July 6.
July 7. Pier, New York, N. Y. ..... June 29
July 7. Metal work, Philadelphia, Pa. ..... June 15
Advertised, Eng. News, June 15 and 22.
July 7. Conduit, Chicago, Ill. ..... June 15
Advertised, Eng. News, June 15 to July 6.
July 8. Jetty extension, Newport, R. I. ..... June 15
Advertised, Eng. News, June 15 and 22.
July 8. Dredging, Newport, R. I. ..... June 15
Advertised, Eng. News, June 15 and 22.
July 10. Miscellaneous supplies, Washington, D. C. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 10. Boiler, Wilmington, Del. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 10. Steam dredge, Spain ..... Apr. 27
July 11. Iron, lumber, valves, etc., Wash., D. C. ..... June 29
July 12. Dredging, etc., Jacksonville, Fla. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 12. Dredging, Portland, Me. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 14. Dredging, Boston, Mass. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 14. Dredging, Mobile, Ala. ..... June 22
Advertised, Eng. News, June 22 to July 20.
July 15. Brick chimney, Pensacola, Fla. ..... June 15
July 15. Coaling plant, Pensacola, Fla. ..... June 15
July 17. Valves, steam whistles, etc., Wash., D. C. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 17. Railway construction, Africa ..... Apr. 27
July 17. Wire, rope, etc., Memphis, Tenn. ..... June 22
Advertised, Eng. News, June 22 to July 20.
July 17. Dredging, Philadelphia, Pa. ..... June 22
Advertised, Eng. News, June 22 to July 20.
July 18. Supplies, Washington, D. C. ..... July 22
July 18. Steel, Washington, D. C. ..... June 22
July 18. Track bolts, spikes, etc. ..... June 22
July 18. Lamps, wire, motors, etc., Wash., D. C. ..... June 29
July 18. Ties, rails, spikes, etc., Washington, D. C. ..... June 29
July 20. Dredging, Norfolk, Va. ..... June 29
Advertised, Eng. News, June 29 and July 13.
July 20. Wreck removal, Charleston, S. C. ..... June 22
Advertised, Eng. News, June 22 to July 20.
July 20. Dredging, Hawaii ..... June 22
Advertised, Eng. News, June 22 to July 27.
July 21. Machinery, Pittsburg, Pa. ..... June 29

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

APALACHICOLA NORTHERN.—Contract for engineering and construction work on this railway from St. Joseph Bay to River Junction via Apalachico'a, Fla., has been let to the MOREY ENGINEERING & CONSTRUCTION CO., of St. Louis, Mo. William A. Hunicke is Ch. Engr. of this company, at Apalachicola.

COAL RIVER RY.—Contract has been awarded for building a 22-mile extension; 18 miles are now in operation. C. K. McDermott, St. Albans, W. Va., is Gen. Supt.

DENVER & RIO GRANDE.—It is reported that an extension will be built from Westwater, Utah, to a point between Sagers and Thompson, Utah, 30 miles. E. J. Yard is Ch. Engr., at Denver, Colo.

EASTERN WASHINGTON.—Construction work will begin at once, it is announced. W. S. Foster and E. W. Swanson, of Spokane, are interested in the railroad. It will extend from Connel't to Fletcher, Wash., 35 miles. W. A. Campbell, B. D. Leonard, C. M. Taylor and E. F. Sohm, of Connell, are a committee in charge of securing right-of-way.

GIFFORD & SOUTHEASTERN.—Company has been chartered in Arkansas to build a line from Gifford to Stewart, a distance of about seven miles. The capital stock is $25,000. The incorporators are: G. E. Mattison, J. W. Wilson and N. A. Webster, of Gifford, Ark.; N. P. Richmond, Henry Berger, P. C. Butler and T. R. McHenry, Malvern; H. H. Foster, Little Rock, Ark.

GRAND TRUNK PACIFIC.—F. W. Morse, Gen. Mgr., has announced that bids will be received for construction of the Lake Superior branch of this proposed system. As noted on April 20, the Grand Trunk Pacific Co. has acquired terminal facilities at Fort William, Ont.

INDIANA.—Final hearing on grade and track elevation project in Indianapolis will be given railroad companies on June 26. Noted fully on May 11.

JOHNSON CITY SOUTHERN.—A charter has been granted to this company to build from Marion, N. C., down Toe River valley, connecting with Johnson City. It will be about 70 miles long. A. B. Andrews, Henry W. Miller, F. H. Miller, of Raleigh; Alfred P. Thom, Fairfax Harrison, of Washington, D. C., and H. C. Ansley, of Alexandria, Va., are the incorporators and directors. Capital is $355,000. This is a project of the Southern Ry.

KANSAS, OKMULGEE & GULF.—F. H. Smith, of Okmulgee, Ind. T., Pres., has filed $3,000,000 mortgage. Funds are to be secured for railway's construction. As projected, it will run from Kansas City through the Cherokee and Choctaw nations, with a branch line from Okmulgee to Oklahoma City and another from Okmulgee to Joplin, Mo. The total mileage will be 560. Capital stock is $2,500,000.

LECKRONE & LITTLE WHITELY.—J. V. Thompson, of Uniontown, Pa., is actively promoting this railway in the coal fields in Fayette County, Pa.

MALVERN & FREEO VALLEY.—This company has been granted a charter in Arkansas to build a 15-mile line from Malvern to Lono, Ark. Capital, $32,000. The incorporators are: H. H. Foster, of Little Rock; N. P. Richmond, T. R. McHenry, W. H. Cooper, G. H. Fordham and D. S. McCray, of Malvern; John Landers, of Springfield, Mo., and others.

MERCED RIVER RY.—Company has been incorporated in California by Milton Ellis and Julius Ellis, of San Francisco, and Louis H. Wiegel, Henry Dennery and Arthur Baker. Capital, $1,000,000. A 35-mile line is to be constructed into Yosemite Valley.

MISSISSIPPI VALLEY & GULF.—Company has been chartered in Oklahoma, with $50,000,000 capital, to build a railroad from a point on the Mississippi River, in Iowa, to a point on the Arkansas River, in Arkansas. Its directors are, Elmer L. Gochanour, of Keokuk, Ia.; Grant P. Dalton, Muscatine, Ia.; George A. Mason, Chicago; Theodore Rockerfeller, Chicago; S. S. Gochanour, Keokuk, Ia.; H. W. Pentecost, L. E. Pentecost and L. M. Lande, of Guthrie, Okla.

MISSISSIPPI CENTRAL.—An extension is said to be assured from Smith's Ferry to Brookhaven, Miss. P. Z. Jones is Chn. of local committee in charge of raising funds at Brookhaven.

NEW ORLEANS GREAT NORTHERN.—Contract for 40 miles of additional construction has been granted to W. J. OLIVER, of Knoxville, Tenn.

NEW YORK, NEW HAVEN & HARTFORD.—A report from Woonsocket, R. I., states that the construction of the West Roxbury & Needham branch of the Woonsocket or Cook St. division, will be begun soon. There will be built six miles of double-track line. Estimated cost is $550,000. J. S. Browne, Providence, R. I., is Division Engr. C. M. Ingersoll, New Haven, Conn., is Ch. Engr.

OHIO, KNOXVILLE & PORT ROYAL.—It is reported that a consolidation of the Ohio River, Anderson & Tidewater, the Western Carolina and the Ohio, Knoxville & Port Royal railway companies, under this name, has been made in South Carolina to build a railroad under the privileges held by these three companies from some point in the west to a terminus at Port Royal, S. C. Albert R. Martin, of Chicago, is Pres.; F. A. Johnson, First vice-Pres. and Gen. Mgr.; J. E. Brenzeale, Secy.

ORANGE & NORTHWESTERN.—Contractors are wanted on Orange & Northwestern railroad to remove 500,000 cu. yds. of earth; good material. All barrow and waste. There are 270 acres of clearing, light and heavy; work will be let to suit size of outfit. Apply on the work, Buna, Tex. RICKER & LEE, Galveston, Tex., have the general contract.

PEORIA, PEKIN & SOUTHEASTERN.—Incorporated in Illinois to build a railway through the counties of Tazwell, Mason, Menard, Sangamon, Christian, Montgomery and Fayette. The southern terminus will be Ramsey. Capital stock is $100,000. The incorporators and the first board of directors are Guy W. Talbott, Robert P. Jack, W. T. Irwin, E. A. Burrill, of Peoria; P. L. Saltonstall, Boston, Mass., and W. H. Trumbull, Salem, Mass.

ROCKLAND, JASPER & NORTHWESTERN.—Company has been granted a charter in Texas. Principal office is at Rockland. Capital $100,000. A railway will be built from Rockland to Jasper, Tex., 25 miles. Incorporators are W. W. Kyle, S. K. Stone, E. M. Wiess, F. H. Votaw, J. J. Elam, C. H. Markham, P. H. Wiess, W. W. Cunningham, Holmes Duke and J. L. Cunningham, all of Beaumont, Tex.

SPOKANE & COLUMBIA RIVER RY. & NAVIGATION CO.—Articles of incorporation have been filed in Washington for a new railroad to be called the Spokane & Columbia River Ry. & Navigation Company, with $4,000,000 capital. The line will be built in the eastern part of the state of Washington, running from Spokane through Spokane, Whitman, Adams and Franklin Counties to a point on the Columbia River in Franklin County. The incorporators are Edward W. Swanson and W. S. Kyle, of Spokane, and Willard S. Foster, of Cheney.

SOUTHERN RY.—W. J. OLIVER & CO., of Knoxville, Tenn., have been awarded contract for an extension from Marysville, Tenn., to Bushnell, N. C., 46 miles.

SOUTHERN PACIFIC.—ERICKSON & CO., of San Francisco and Los Angeles, Cal., have been awarded contract for construction of five tunnels through the Sierra Nevada Mountains. Noted last week. Est. cost, $25,000,000.

SOUTH DAKOTA CENTRAL.—Several extensions are to be constructed. P. F. Sherman, Sioux Falls, S. Dak., is Gen. Mgr.; J. L. Wagner is Ch. Engr.

ST. PAUL & DES MOINES.—Company has been incorporated in Iowa to build an extension of the Des Moines, Iowa Falls & Northern R. R. northeast from Iowa Falls to the Minnesota state line. Company is capitalized at $1,000,000. Other branches may be built. Incorporators are E. S. Ellsworth, William Welden and W. J. Souder, of Iowa Falls; and G. A. W. Dodge and W. H. Tyler, of Boston, Mass.

WABASH.—It is again reported that the Wabash Co. will extend its system through Pennsylvania and New Jersey to some point connecting with New York city.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

WEST BOYLSTON, MASS.—J. G. White & Co., 49 Exchange Pl., New York, have awarded sub-contract for grading line for an electric road in West Boylston to the BOYLSTON CONSTRUCTION CO., of West Boylston. Cost, $12,000.

BRANCHPORT, N. Y.—The capital stock of the Hornellsville & Branchport Elec. Ry. Co. will be increased from $50,000 to $2,500,000 to provide for construction of the road from Branchport via Bath, to Hornellsville, about 50 miles long. John F. Tuerk, of Bath, is Pres. Contracts will be let at once, it is reported. Moses Davison, W. H. Philips and Frederick Hastings, all of Bath, are directors.

BUFFALO, N. Y.—The Buffalo, Batavia & Rochester Electric Ry. Co. has been granted permission by State Railroad Commission to build an electric line from Williamsville, five miles east of Buffalo, to Rochester, via Batavia. It will be an extension of the railway which is now operated between Buffalo and Williamsville by the Buffalo & Williamsville Ry. Co. It is said that work on the new road will be commenced at once, as conditional contracts were made previously, subject to the action of the state commission. The road will be 65 miles long. Capital stock will be $3,500,000. George R. Sikes, Williamsville, is Ch. Engr. When the first hearing before the State Railroad Commission on the application for permission to build the road was held last December, the president of the road, George L. Lewis, of Williamsville, stated that the estimated cost of construction was between $4,000,000 and $4,750,000, including the power house but not the engineering. The company will double-track the road for six or eight miles out of Buffalo and Rochester and also near Batavia.

SYRACUSE, N. Y.—Notice is published that a franchise for the construction and operation of a single-track or double-track street surface railroad, as applied for by the Syracuse Rapid Transit Ry. Co., will be sold at public auction at City Hall on July 6, 10 a. m. George J. Metz, Cy. Clk.

MANCHESTER, N. Y.—The Rochester & Eastern Rapid Ry. Co., it is reported, will apply for an extension of time for building an electric railway at Manchester. Franchise granting this company the right to build will soon expire. John H. Pardee, of Canandaigua, N. Y., is Gen. Mgr.

CLYDE, N. Y.—Members of the Clyde Board of Trade will organize a company which will construct an electric railroad between Clyde and Sodus Bay. The executive committee is composed of John Kellogg, E. Wood, Charles Sherman and W. A. Hunt. Financial arrangements are favorably under way.

NEW YORK, N. Y.—Thomas N. McCarter, 776 Broad St., Newark, Pres. of the Public Service Corporation of New Jersey, has announced that this company has determined, after more than a year of careful consideration, to construct and operate, through the agency of a subsidiary corporation to be formed, a high-speed electric road from Newark to New York. It is announced that site for a terminal is acquired in Newark, also a private right-of-way across the Hackensack meadows to Jersey City. Surveys are reported to have been run. Mr. McCarter states that "the road will be built with the finest modern electrical construction. There will be no grade crossings; within the limits of the city of Newark it will be a subsurface road; the Passaic River will be tunneled. It has not yet been determined whether to tunnel or bridge the Hackensack River. The route through Jersey City will be in part elevated and in part below the grade. To procure the necessary terminal rights in New York city and to construct the road will, of course, consume considerable time, but the work will proceed as rapidly as possible." Financial arrangements are provided for. J. A. Pearson, Broad and Arch Sts., Philadelphia, is Purchasing Agent.

YONKERS, N. Y.—State Railroad Commission has received application of the Bronx, Yonkers & White Plains Ry. Co. for a franchise for an electric railway to be built from the Bronx to White Plains and Yonkers. Definite action was postponed until a meeting which is to be held on Aug. 15. Noted on June 1.

AMBRIDGE, PA.—Application will be made to the governor of Pennsylvania July 6 for charters for seven street railway companies which propose to build a system of street railways from Ambridge to Allegheny Length of the various lines will be 84.3 miles. Applicants for charters will be W. H. Keech, D. P. Black, Pres. of the Real Estate Trust Co.; J. N. Jarvis, W. D. Allison and Frederick B. Fisher, all of Pittsburg. The law requires that charters must be taken out for each borough or township through which the street car lines run and for that reason seven charters will be necessary. The companies will be known as the Ambridge, Dixmont and Emsworth St. Railway Co., the Ambridge, Edgeworth and Sewickley St. Ry. Co., the Ambridge, Leetsdale and Edgeworth St. Railway Co., the Ambridge, Sewickley and Osborne St. Railway Co., the Ambridge, Osborne and Haysville St. Railway Co., the Ambridge, Haysville and Glenfield St. Railway Co., and the Ambridge, Glenfield and Dixmont St. Railway Co. Right-of-way is being secured.

SUNBURY, PA.—The railway and lighting companies of Sunbury have merged interests and a new company, the Northumberland County Railroad & Light Co., has been incorporated in New Jersey. Wilbur F. Sadler, Jr., of Trenton, N. J.; W. W. Hepburn and George Parkman, of Philadelphia, are incorporators. Lewis Starr, 111 Market St., Camden, N. J., is representative. It is said that improvements to properties of the new company will be made. Capital stock, $1,000,000.

WEST CHESTER, PA.—Three extensions are under consideration by the West Chester Street Railway Co. One provides for a line to Contesville from this borough via Marshallton, East Bradford, West Bradford and East Fallowfield Township and townships of Mortonfield and Modena. Another for a line from Willowdale to a point on the Gap and Newport Turnpike and close to Avondale. The third line is to extend from the foot of High St., West Chester, to Wilmington, Del., touching Darlington Corner and Dilworthtown, in Chester County, and Brandywine Summit, Elam, Johnson corner, in Delaware County, thence on to the Delaware state line. Henry H. Archer is Gen. Mgr.; John W. Crox is Ch. Engr., both at West Chester.

PADUCAH, KY.—O. C. Sasher, of Smithland, Ky., is interested in promotion of an electric railway from Paducah to Marion.

MAYSVILLE, KY.—Company has been organized to build an electric line from Maysville to Paris, via Washington, Mays Lick, Mt. Olivet, Carlisle and Blue Lick. It will be about 60 miles long. Organization has been effected with appointment of the following officers: President, Hon. James N. Kehoe, Maysville; vice-Pres., H. A. Power, Paris; Secy., John Duly, Maysville; Treas., W. W. Ball, Maysville. Directors: James N. Kehoe, W. W. Ball, Millard Merz, E. P. Browning, of Maysville; C. C. Cole, W. B. Ratliff, of Carlisle; C. W. Howard, of Millersburg; H. A. Power, of Paris. The organizers have been assured, it is said, of sufficient funds to build the road.

HICKORY, N. C.—A 35-year franchise has been granted to the Hickory Ry. & Power Co. As noted on June 1, the Hickory Railway & Power Co., capital $125,000, has been incorporated, with M. E. Thornton as Pres. and Mgr. Company will soon make a preliminary survey within the city limits and to suburban points. Construction will be started soon. There will be 13 miles of railway.

MANSFIELD, O.—The newly-chartered Cleveland, Ashland & Mansfield Traction Co. will begin construction on proposed line from Mansfield through Richland, Ashland and Medina Counties. Capital, $1,000. The incorporators are: W. H. Abbott, of Cleveland; A. J. Halle, C. W. Collister, Frank Butler and H. B. Cavanaugh. Capital stock will be increased to $800,000.

HAMILTON, O.—The Cincinnati Northern Traction Co. has been granted a 25-year franchise to extend its lines in this city. Improvements to power station and tracks are contemplated.

SOUTH BEND, IND.—Contract has been awarded to GEORGE TOWNSEND, of Indianapolis, for construction of an electric railway for the South Bend Western R. R. Co., from South Bend to Laporte, 30 miles.

It is reported that the Indianapolis, Logansport & South Bend Traction Railroad Co. has under consideration the construction of a line from South Bend to Logansport, Ind., through Rochester, Bremen, Argos and Bourbon, Ind. Right-of-way has been secured. Several townships have voted subsidies, it is said.

WABASH, IND.—The Indiana Northern Traction Co. will build an extension from Wabash to North Manchester, 14 miles. At a later date the line will be extended from North Manchester to Warsaw. J. A. Barry, La Fountaine, Ind., is Gen. Mgr. and Pur. Agent.

KENDALLVILLE, [illegible]—An election to vote on a subsidy of [illegible] to Toledo & Chicago Int[illegible] on July 10. The co[illegible] equip the line and co[illegible] in Kendallville, befor[illegible] sidy.

BLUFFTON, IND.—[illegible] Dunkirk, Ind., have [illegible] to grade the line for [illegible] City & Fort Wayne [illegible] way from Bluffton to [illegible] week.

MANITOWOC, WIS.—[illegible] ley Ry. Co. has been g[illegible] chise. The line will ex[illegible]

SACRAMENTO, CAL.—[illegible] ceived by William B. H[illegible] until 10 a. m., July 7 [illegible] chise to construct and [illegible] or double-track electri[illegible] gage, upon certain str[illegible]

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BANGOR, ME.—We a[illegible] will be received, probab[illegible] posed power plant at A[illegible] Maine & New Brunswi[illegible] Estimated cost is $250,0[illegible] Presque Isle, Me., is G[illegible] ther, Portland, is Engr.[illegible] of Gardiner, Me., is Ass[illegible] noted.

BUFFALO, N. Y.—C[illegible] Engr. Comr., informs u[illegible] municipal light and pow[illegible] was agitated last spring, [illegible] the present. The city has [illegible] with the Gas Co., and [illegible] lighting contract has a ye[illegible]

OSWEGO, N. Y.—Bids are asked by Department of Water, F. W. Hornsby, Secy., until noon, July 1, for erecting pumping and power stations for the lake water extension.

NORTH TONAWANDA, N. Y.—Bids are asked until 8 p. m., July 5 for lighting the city from Aug. 1, 1905, to Aug. 1, 1906, and from Aug. 1, 1905, to Aug. 1, 1907. George J. Smith, Cy. Clk.

CAMDEN, N. Y.—Bids have been submitted by the Westinghouse General Electric, the Fort Wayne, the Stanley, the Allis-Chalmers and the Adams-Bagnall companies, and the American Diesel Engine Co., for installing a lighting plant. A. C. Woodruff is Atty. for Light Commission.

POTSDAM, N. Y.—We are informed that bids were received on June 27 for erecting municipal electric lighting plant. Est. cost $40,000; as follows: Street equipment, $10,000; water power development, $7,000; generating plant (electrical), $9,000; steam plant, $7,500; power house, including flumes and foundations, $3,000; incidental expenses, engineering, etc., $3,500. George Lewis is Pres. Village. H. B. Sweet, Utica, N. Y., is Engr. Plant will have capacity of 3,000 16-c.-p. incandescent and 75 2,000-c-p. arc lights.

NEW YORK, N. Y.—The New York Edison Co., 55 Duane St., will erect a power house, about 250 × 300 ft., in the Bronx Borough. Construction probably will not be begun until next year. T. E. Murray is Engr. for company.

SOUTH ORANGE, N. J.—Board of Trustees will appoint committee to consider municipal ownership of electric plant. Edmund R. Halsey is Village Engr.

PHILADELPHIA, PA.—Edwin F. Durang, Arch., 1200 Chestnut St., has invited bids for a power house at Broad and Mifflin Sts. for St. Agnes Hospital.

Contract has been awarded to SCHOFIELD & CO. for constructing power house for the Philadelphia Rapid Transit Co. at Beach St. and Fairmont Ave. Cost, $100,000.

PHILADELPHIA, PA.—The Philadelphia & Western Ry. Co., will erect a power house at Cobb's Creek. Est. cost, $1,000,000.

WEST CHESTER, PA.—Baker & Dallett, Archs., 1420 Chestnut St., Philadelphia, are preparing plans for a power house for the state normal school. Equipment will be required.

SUNBURY, PA.—The Northumberland County Ry. & Light Co. has filed articles of incorporation in New Jersey. This company comprises the merged Edison Electric Illuminating Co. and the Sunbury & Northumberland St. Ry. Co. Incorporators are Wilbur F. Sadler, Jr., of Trenton, N. J.; William W. Hepburn and George Parkman, of Philadelphia. Lewis Starr, 111 Market St., Camden, N. J., is Representative. S. P. Wolverton, Jr., Sunbury, is Mgr. and Supt.

CHARLESTOWN, W. VA.—Bids are asked by the Winchester & Washington Electric Ry. Co. for the construction of a concrete dam, race-way and wheel pits on the Shenandoah River, near Charlestown, W. Va., for the proposed hydro-electric plant. S. H. Hansbrough is Pres.; N. Wilson Davis, Engr., Charlestown, W. Va.; R. F. D. 1. (Advertised, Engineering News.) 3,000 HP. will be developed. Dam will be 900 ft. long, race-way will be 1,800 ft. long, partly through rock.

ELIZABETH CITY, N. C.—D. B. Banks, of Baltimore, Md., has been granted a gas plant franchise in this city.

CONCORD, N. C.—We are informed by Quint E. Smith, Cy. Engr., that, pending sale of first mortgage bonds, nothing will be done toward improving municipal electric light plant. Cost, $15,000. C. W. Stokes is Ch. Engr. of city plant.

SALISBURY, N. C.—Edward M. Deane & Co., of Grand Rapids, Mich., have acquired control of the Salisbury & Spencer Ry. Co., which owns and operates the traction and electric and gas lighting systems. Improvements will be made. H. C. Daggett is Ch. Engr., at Salisbury.

JACKSON, MISS.—It is reported that the Jackson Electric Railway Light & Power Co. will rebuild power house, extend railway five miles and purchase new equipment. Est. cost, $150,000.

ALGIERS (New Orleans post-o..ce), LA.—The Algiers Ry. & Lighting Co. will build a power house at cost of $200,000. Company has been ... ered and capitalized at $300,000. Leiand Carroll is Pres.; J. W. Carroll, Sam Henderson, Jr., and L. H. Ma... Dinkins are Directors.

CLEVELAND, TENN.—The Cleveland Hosiery Mill ... be in the market during July for electric lighting machinery. Address F. A. Weiss, Manager, Tenn.

ARCANUM, O.—Bids are asked by Board of Trustees Public Affairs, W. W. Hadfield, Pres., until noon, July 6, for construction of electric light plant and water-works. T. C. Hefel, Engr., Muncie, Ind. (Advertiser, Engineering News.) Plans and specifications for this work may be seen at New York office of Engineering News.

MUNCIE, IND.—The Heat, Light & Power Co. will construct an artificial gas plant.

The Muncie Gas, Light & Fuel Co. will build an artificial gas plant this fall. Robert H. Adams is Mgr.

OOLITIC, IND.—We are informed that town will build water-works and electric light plant. Funds for this purpose have not been raised. Est. cost is $25,000. George C. Morgan, Chicago, Ill., is Engr.

KOKOMO, IND.—The Kokomo Gas & Light Co. has been incorporated with $100,000 capital. Company will build a plant of large enough capacity to supply light, heat and power to this and other cities. Alexander Lindeman and K. L. Ames are interested.

BLOOMINGTON, ILL.—We are advised that the Danville Street Ry. & Light Co., of Danville, Ill., will build a 2,000 KW. addition to its plant at Bloomington. H. C. Houghland, Elec. and Mechanical Engr. for Illinois Traction System is Designing Engr.

PANA, ILL.—The National Power, Light & Heating Co. is organized, with J. N. C. Shumway, of Taylorville, as Pres., and Geo. B. Martin, of New York, Secy. Company will construct a gas plant.

CRESTON, IA.—A franchise for an electric light plant has been granted to the Creston Electric Co., of which J. C. Sullivan is Pres. and J. W. Reynolds, Secy. The company will purchase equipment for a plant to cost about $40,000. Noted on June 15.

KEOKUK, IA.—We are advised that Lyman E. Cooley, Chicago, Ill., is Engr. for the proposed power development of Mississippi River at Des Moines Rapids, between Keokuk, Ia., and Hamilton, Ill. The project is being undertaken by the Keokuk & Hamilton Water Power Co. No steps for actual construction are yet taken. Noted fully on Feb. 16.

WEST MINNEAPOLIS, MINN.—Bids are asked until noon, July 6, for building and establishing necessary buildings, machinery and apparatus for making, generating and supplying gas light for public and private use in this village. Paul Swenson is Pres. Council.

ATCHISON, KAN.—C. H. Pattison has been granted a franchise to supply Atchison with natural gas from southern Kansas fields.

OTTAWA, KAN.—See under Water-Works.

OMAHA, NEB.—Bids were called for until June 27 for gas lighting of city streets for five years.

PITTSBURG, KAN.—Bids are asked by Home Light, Heat & Power Co., until July 12, 1.30 p. m., for furnishing machinery and apparatus for its new light and power station, as follows: One 375 to 400 HP. gas engine, direct-connected. One 225 to 250 HP. gas engine, direct connected. One 250-KW. three-phase, 2,300-volt, 60-cycle generator, direct connected to gas engine. One 150-KW., three-phase, 2,300-volt, 60-cycle generator, direct connected to gas engine. 100 to 150 light three-phase series arc light transformer and regulator. Marble switchboard and station wiring, etc. 100 6.6 ampere series enclosed arc lamps. 3,600 light commercial lighting transformers in large sizes. One second-hand belted 125 KW. three-phase, 2,300-volt, 60-cycle, generator with instruments. Owen Ford, Security Bldg., St. Louis, Mo., is Consult. Engr. E. V. Lanyon is Pres. (Advertised, Engineering News.)

HELENA, MONT.—It is reported that the Missouri River Power Co., at Helena, Mont., will build a second dam across the Missouri River for developing electrical power. Cost, $1,000,000. Work will begin soon.

ASHLAND, ORE.—C. W. Evans, Engr., of Ashland, has submitted report to city regarding a municipal electric light and power plant. City will consider issuance of bonds. Est. cost, $40,000. Bids will be received for installing the plant complete. City will issue $30,000 of bonds for purpose of purchasing all outside water rights of Ashland Creek upon which plant will be built, two miles from city. Length of pipe line from intake of water down creek bed, to power plant will be 5,000 ft.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

PROVIDENCE, R. I.—Bids are asked by Walter F. Slade, Comr. Pub. Wks., until July 12, for excavating, changing and constructing abutments and constructing new piers in Providence River at Point St. bridge. (Advertised, Engineering News.)

NEW YORK, N. Y.—Following bids were received June 20 by President, Bronx Borough for constructing approaches to bridges over N. Y. C. & H. R. R. R. at Depot Pl. and West 177th St.: Troy Public Works Co., Troy, N. Y., $123,221; Juo. J. Hopper, 215 West 125th St., New York, $148,490; Jno. C. Rodgers, 1909 Amsterdam Ave., New York, $123,052; Kelly & Kelly, 45 East 42d St., New York, $100,156.

PASSAIC, N. J.—The following bids were received June 22 for new drawbridge across Passaic River, to be paved with either (a) plain planking or (b) creosoted blocks: Canton (O.) Bridge Co., (a) $68,500, (b) $70,300; OSWEGO (N. Y.) BRIDGE CO., (a) $64,500, (b) $69,500 (awarded contract); F. M. Stillman Co., (a) $66,300, (b) $70,300; Dean Schwiers & Sutton Co., 136 Liberty St., New York, (a) $74,950, (b) $78,000; West Virginia Bridge Co., Wheeling, W. Va., (a) $73,500, (b) $75,000; New Jersey Bridge Co., Fuller Bldg., New York, (a) $69,300.

RUTHERFORD, N. J.—Bids are asked until June 30, 10 a. m. (readvertisement), for construction of a drawbridge across the Passaic River. Est. cost, $12,000. Geo. Bothyl, Clk., Paterson. Previously noted.

WEST NEWTON, PA.—The contract for proposed bridge across Youghiogheny River at West Newton has been awarded, it is stated, to the PENN BRIDGE CO., of Beaver Falls, Pa.

READING, PA.—Bids are asked by H. F. Livingood, County Compt., until July 7, 10 a. m., for building bridge over Moselm Creek, at Rothermel's Mill. Plans and specifications on file in office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

PHILADELPHIA, PA.—An ordinance has been passed by Select Council providing for the construction of the following bridges: Allen's Lane, $30,000; 25th St. bridge, $65,000; Front St. bridge, $45,000; Mount Pleasant bridge at Gorgas and Phil-Ellena St., $70,000; Walnut Lane, $110,000; Sedgley Ave., $40,000; west approach to Spring Garden St. bridge, $100,000. A. Lincoln Acker is Comr. Pub. Wks.

BALTIMORE, MD.—The Western Maryland R. R. Co. has awarded contracts for reconstruction of several of its bridges to the PENNSYLVANIA STEEL CO., Girard Bldg., Philadelphia, Pa.

WELDON, N. C.—T. C. Harrison, of Weldon, wants to correspond with companies relative to the construction of steel bridge between one-quarter and one-half mile long.

ALPHARETTA, GA.—Bids are asked by County Commissioners until July 6 for erecting four steel bridges, of a combined length of 950 ft., over Chattahooche River.

HOLLY SPRINGS, MISS.—Bids will be received by C. H. Wright, Clk. Bd. of Supv., until July 3 for building one ground-hog bridge 300 ft. long on Road No. 15; also 100-ft. pile bridge across slough Road No. 4; also one 45-ft. post-trestle bridge across Cuffawa Creek on Road No. 26, and one 70-ft. post-trestle bridge on Road No. 64.

KNOXVILLE, TENN.—A contract has been awarded to W. J. OLIVER CO., of Knoxville, to build a concrete viaduct reinforced by steel that will connect Knoxville proper with western section of city. Cost, about $80,000. The Louisville & Nashville, Southern and Knoxville Traction Co. will pay the cost of conetruction, while the city pays the condemnation charges and is to keep the structure in repair.

MARIETTA, O.—County Commissioners will let two bridges, 100 ft. and 120 ft., respectively, on July 18. Bids for both iron and wood will be accepted. A. F. Cole, County Engr.

SANDUSKY, O.—Bids are asked by County Commissioners until July 10, 10 a. m., for the erection of a steel centered concrete arch, complete, in Oxford Township. Chas. Kubach, County Audr.

PORT CLINTON, O.—Bids will be received by County Commissioners until July 10 for constructing substructure of bridge across Portage River in Harris Township. Henry Pafenbach, County Audr.

AKRON, O.—The plans submitted by Baltimore & Ohio R. R. Co. for a bridge over East North St. have been approved by City Council. D. D. Carothers is Ch. Engr., Baltimore, Md.

DELPHI, IND.—Bids are asked by County Commissioners until July 3, 12 m., for construction of one bridge and stone or concrete abutments for two bridges. Fred. H. Engel, County Audr.

WINAMAC, IND.—County Commissioners awarded the contract for building of nine bridges to the WINAMAC BRIDGE CO. The appropriation for each bridge ranged from $550 to $1,350.

LOGANSPORT, IND.—The Country Club will build a bridge across the Wabash to connect the club-house with the interurban, to cost about $3,000.

MARTINSVILLE, IND.—Bids are asked by County Commissioners until July 5 for constructing concrete arch and steel bridges throughout the county. B. R. Johnson, County Audr.

ANDERSON, IND.—Bids will be received by County Commissioners until July 18, 10 a. m., for construction of five concrete arches according to plans and specifications on file in office of J. D. Kinnard, County Auditor. E. J. Wilcox, County Engr.

WILLIAMSPORT, IND.—Bids are asked by County Commissioners until July 10, 11 a. m., for construction of a grade or approach to bridge now being constructed across Wabash River at Independence. Robt. L. Winks, County Audr.

HOUGHTON, MICH.—Contract for the erection of new drawbridge to connect Houghton and Hancock has been awarded by County Commissioners to the WISCONSIN BRIDGE & IRON CO., Pabst Bldg., Milwaukee, Wis., for $70,922.

PONTIAC, MICH.—The Council awarded to M. D. HEITSCH, of Pontiac, the contract for constructing seven cement bridges, at $10,985. Previously noted.

LOCKPORT, ILL.—ROEMHELD & GALLERY, 138 Washington St., Chicago, Ill., have been given the contract to construct superstructure of two single drawbridges, one at Ninth St. and the other at 16th St., to cost $60,000 each.

LA CROSSE, WIS.—The bridge of the Chicago & Northwestern, ten miles north of this place, between Lytles and Trempealeau, has been carried away by high water. E. C. Carter is Ch. Engr., Chicago, Ill.

DES MOINES, IA.—Plans for the Seventh St. viaduct have been approved and adopted by City Council. John W. Budd is Cy. Engr.

LAWRENCE, KAN.—Bids are asked by F. D. Brooks, Cv. Clk., until July 3 for stone-arched culverts on Mississippi and Winthrop Sts., consisting of about 3,500 cu. ft. of masonry.

WELLINGTON, KAN.—Bids are asked by County Commissioners until July 10 for construction of a steel bridge over Chikaskia River. C. A. MacDonald, County Clk.

MINOT, N. DAK.—Bids will be received by County Commissioners until July 3 for constructing a steel drawbridge over Des Lacs Lake. J. W. Fabrick, County Audr.

INDEPENDENCE, MO.—Bids are asked by County Clerk until July 8, 11 a. m., for constructing one 45-ft. steel bridge. Oscar Koehler, Rd. and Bridge Comr.

WACO, TEX.—Bids are asked by R. B. Lickey, Cy. Secy., until July 6 for construction of certain bridges.

STILLWATER, OKLA.—The MISSOURI VALLEY BRIDGE & IRON CO., Leavenworth, Kan., was awarded contract by County Commissioners for furnishing the steel for 19 bridges to be erected in various parts of county, at $3,800 f. o. b. Stillwater. J. H. Donart, County Clk.

DENVER, COLO.—The Board Public Works has let the contract for building the Larimer St. bridge over Cherry Creek to JOHN W. TOWLE, of Omaha, Neb., for $21,000.

WENATCHEE, WASH.—Bids are asked by County Commissioners until July 3, 10 a. m., for construction of a wagon bridge across Wenatchee River, near Cashmere, to consist of one span 150 ft. and one 90 ft. in length. Jno. A. Gellatly, County Clk.

FRESNO, CAL.—The Board of Supervisors has instructed the County Surveyor to prepare plans for a steel bridge to be built over San Joaquin River at Pollasky at a cost of about $25,000 to replace the present structure.

YREKA, CAL.—Bids are asked by County Commissioners until July 7, 10 a. m., for construction of a bridge over Shasta River. Robt. Rankin, County Clk.

MIDLAND, ONT.—The County Council has appointed a committee to report upon the building of a bridge over Mad River at Glen Huron. The erection of a 70-ft. steel bridge at the Narrows is also under consideration.

BRACEBRIDGE, ONT.—Tenders are asked until July 1 for a single span, 190 ft., steel bridge with 20-ft. roadway and 6-ft walk on one side; also for cement abutments. A. C. Salmon, Town Clk.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BROCKTON, MASS.—A permit has been granted to Wm. J. Anglim for the erection of an eight-story brick block at Monticello and Center Sts. Cost $110,000.

AMESBURY, MASS.—The contract for construction of U. S. post office here has been awarded to FISSELL & WAGNER, 1133 Broadway, New York, for $42,445. Previously noted.

BEVERLY, MASS.—A four-story apartment block with stores on ground floor is to be constructed in Beverly. The building is to have a foundation of concrete and a concrete floor; it will be 48 × 98 ft. Geo. P. Carver, of Beverly, is architect and engineer and the work will be done under his direction.

WATERBURY, CONN.—Chickering & O'Connell, Archs., 18 Boylston Bldg., Boston, Mass., have plans for a church for St. Anne's R. C. Society. Rev. J. E. Lenesac, pastor, Waterbury. Mason contract has been let to the GRANITE CONST. CO., Fall River, Mass. Cost $175,000.

NEW YORK, N. Y.—Alonzo B. Kight, Arch., 1947 Broadway, has plans in progress for an apartment house to be erected at 101st St., near Broadway, for himself. Brick, stone and terra-cotta, 6 stories, 75 × 100 ft. Heating system, electric elevators, electric wiring, motors and plumbing.

Palmer & Hornbostel, Archs., 63 William St., have plans in progress for a new club house to be erected at 44th St., near Broadway, for the Alpha Delta Phi Club of 33 West 33d St. F. L. Stetson, Pres. Brick, stone and steel, 8 stories, 35 × 100 ft. Heating and ventilating system, boilers, motors, billiard tables, furniture, etc.

Contract for new residence to be erected for R. H. McCurdy at 32 East 52d St., has been awarded to DAWSON & ARCHER, 150 Fifth Ave. Clinton & Russell, Archs., 32 Nassau St. Brick and stone, 5 stories, 25 × 100 ft.

T. H. Poole & Son, Archs., 13 West 30th St., have plans in progress for a church to be erected at Mt. Morris Park West and 122d St., for the Harlem Presbyterian Church of 43 East 125th St. Brick and stone, 100 × 100 ft. WAKEHAM & MILLER, 1133 Broadway, have been awarded the general contract.

Oscar Lowinson, Arch., 29 West 42d St., is taking figures on an automobile garage to be erected at 57th St. and Broadway, for the Auto Import Co., 1786 Broadway. Brick and stone, 4 stories, 50 × 100 ft. Heating system, elevator and electric wiring.

The Louis Weber Building Co., 1 Madison Ave., will erect a 12-story office building on Walker St. and Van Courtlandt Alley. Heating system, boilers, motors, switchboards, electric wiring, etc.

The following bids were received June 22, by John F. Ahearn, Boro. Pres. For alterations in rooms on basement, first, second, third, fourth, fifth, fifth mezzanine, sixth, seventh, eighth and attic floors; also for extension to electric lighting equipment, plumbing and heating, carpenter and cabinet work, hardware, metallic and other furniture, painting, electric lighting fixtures; marble and bronze work, plastering, fireproofing, and other work, for the completion of Hall of Records Building, for the City of New York, Borough of Manhattan. John Pierce, 277 Broadway, $1,449,000; Remington & Shannon Co., 38 Park Place, $1,328,426; Van Dorn Iron Works, Cleveland, O., $1,480,000; R. E. Heningham, 4 Court St., Brooklyn, $1,363,500.

J. A. Farley will build ten-story flats, 50 × 73 ft., at Madison Ave. and 55th St., from plans filed by Thain & Thain, Archs., 4 East 42d St. Cost $225,000.

On the site of Dr. Parkhurst's Madison Square Presbyterian Church, the Methropolitan Life Insurance Co., 23d St. and Madison Ave., is about to erect one of the tallest buildings in the world. It will be more than 500 ft. high. Napoleon Le Brun & Sons, Archs., 1 Madison Ave., made the preliminary plans.

NEW YORK, N. Y.—Bids are asked by the Department of Health until July 5, for furnishing all the labor and materials necessary to complete two Isolation Ward Buildings at the Riverside Hospital, North Brother Island, Borough of the Bronx. Thos. Darlington, M. D., Pres.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until July 10, for installing electric equipment in the additions to and alterations in School No. 110 at Briggs Ave. and Monitor St., Borough of Brooklyn.

MAMARONECK, N. Y.—H. G. Benchartz, Arch., 147 Fourth Ave., has plans in progress for a hotel to be erected at Mamaroneck to contain 300 rooms. Brick and wood, 6 stories, 75 × 400 ft. Heating and ventilating systems, engines, electric wiring, etc.

ALBANY, N. Y.—Bids are asked by Board of Contract and Supply until July 3, 3 p. m., for furnishing of all materials and performing work necessary for the erection and completion of School No. 16, to be erected on North Allen St. The work will be subdivided into the following items: Mason work; carpenter work, painting, plumbing, heating. Plans and specifications may be seen at office of Walter Melins, Cy. Engr.

MOUNT MORRIS, N. Y.—The D. L. & W. Ry. Co., Hoboken, N. J., Lincoln Bush, Ch. Engr., Hoboken, want figures on a new passenger station to be erected at Mount Morris. Cost, $30,000.

BROOKLYN, N. Y.—The Armory Board has awarded contract for the extension to Thirteenth Regiment Armory to Albert E. Parfitt, Arch., 26 Court St., Brooklyn. Cost, including architect's fee, will be less than $100,000.

NEW YORK, N. Y.—The plans for new tuberculosis hospital which the Department of Health will erect on North Brother Island at a cost of $150,000, have been completed by Westervelt & Austin, Archs., 7 Wall St.

W. H. Sears, Arch., 396 East 184th St., is taking figures on a new stone church to be erected at Fordham for the Bath Eden Baptist Church of which the architect is pastor. Cost $50,000.

Jas. Knox Taylor, Supv. Arch., Washington, D. C., has started plans for a new hospital building to be located at Ellis Island for the United States Government. Cost $250,000.

C. P. H. Gilbert, Arch., 1123 Broadway, will take bids soon for the $250,000 residence to be erected at 882 Fifth Ave., for Robt. Graves, 483 Fifth Ave. Stone, 5 stories, 30 × 175 ft. Cost $250,000.

F. A. Minuth, Arch., 289 Fourth Ave., will take figures soon on a store building to be erected at 13 West 34th St., for R. Smith & Co., 56 West 14th St. Brick and stone, 5 stories, 25 × 125 ft. Heating and ventilating system, stack, electric wiring, etc.

Wm. W. Knowles, Arch., 1135 Broadway, will take figures soon on a loft building to be erected at 304-10 West 23d St. Brick and stone, fireproof, 12 stories, 75 × 100 ft. Boilers, 'phone system, elevators, blowers, etc. Cost $300,000.

J. E. Kerly, Arch., 452 Fifth Ave., is taking figures on a stable and warehouse to be erected at 176th St. and Park Ave., for the Tremont Storage Warehouse Co. Brick, stone and steel, 8 stories, 60 × 130 ft. Heating system, electric wiring, electric elevators and motors.

J. H. DEEWES, 287 Fourth Ave., was awarded general contract for training school to be erected at Cauldwell and Westchester Aves., for the Lebanon Hospital. Brick, 4 stories, 50 × 90 ft. Albert E. David, Arch., 494 East 138th St.

MIDLAND PARK, N. J.—Bids are asked by Board of Education until July 3, 8 p. m., for the erection of a brick and stone school-house. Bids must include all work except heating and ventilating. S. A. Brouse, Arch., First Nat'l Bank Bldg., Trenton, N. J.

HACKENSACK, N. J.—Bids are wanted by Holy Trinity R. C. Church for the erection of a parochial school and club house. Rev. J. J. Cuneely, Rector. Cost $35,000.

HACKENSACK, N. J.—Board of Freeholders will build a new court-house here, to cost about $300,000. Ward Berry, Clk.

WHITEHALL, N. J.—T. Cressy, Arch., 800 Broad St., Newark, will take figures soon on a residence to be erected at Whitehall for D. Young. Will contain 20 rooms and have heating plant with electric wiring.

NEWARK, N. J.—Chas. A. Gifford, Arch., 18 East 17th St., New York, desires figures on an addition to Y. M. C. A. building at Newark, to be two stories, 40 × 100 ft., and four stories, 60 × 80 ft., for dormatories.

NEWARK, N. J.—L. H. Broome, Arch., 15 Exchange Place, Jersey City, N. J., is taking figures on a department store, to be erected at 645-51 Broad St., Newark. Brick and stone, 3 stories, 75 × 350 ft.

JERSEY CITY, N. J.—The following contracts were awarded June 22 by Board of Education, Fred Ege, Secy., for alterations to Public School No. 6: Mason work, CHAS. KUEDERLY, 319 Communipaw Ave., $14,997; carpenter work, THOS. MAHONEY, 196 Morgan St., $9,779; painting, M. A. H. MILLER, 201 Griffith St., $3,177; plumbing and gas, HEATHERTON BROS., 665 Ocean

Ave., $1,896; heating and ventilating, JOHN T. McLAUGHLIN, York and Greene Sts., $4,033; John T. Rawland, Arch., 15 Exchange Place.

ATLANTIC CITY, N. J.—EDWIN GILBERT & CO., Land Title Bldg., Philadelphia, have been awarded contract for an addition to Marlborough Hotel for Josiah White & Son. Cost $650,000.

NEWARK, N. J.—The plans submitted in a prize competition by John T. Rowland, Arch., 15 Exchange Place, Jersey City, at the last meeting of Newark Lodge of Elks, for the erection of a three-story brick club house and hall on Green St., Newark, were awarded first prize and accepted. Three prizes were offered and seven architects competed. The building will cost about $60,000 and the furnishings and other equipment about $20,000.

HARRISBURG, PA.—Wm. H. Cookman, Arch., Broad St. station, Philadelphia, has invited bids for an office building. Brick, stone and steel, fireproof, 8 stories, 100 × 30 ft. Power and refrigerating plants and elevators.

POTTSVILLE, PA.—Chas. T. Mould, Arch., has invited bids for an addition to Hotel Allan. Brick, 5 stories, 40 × 80 ft.

WILKESBARRE, PA.—F. L. Olds, Arch., Coal Exchange Bldg., has invited bids for additions to Coal Exchange Bldg. Brick, stone and steel, fireproof, 7 stories, 100 × 100 ft. Cost $75,000.

PHILADELPHIA, PA.—CHAS. GILPIN, Pennsylvania Bldg., has been awarded contract for a training house at 33d and Spruce Sts., for the University of Pennsylvania. Cost, $50,000.

PITTSBURG, PA.—Plans are being prepared by Muller and East, Archs., 411 Wood St., Pittsburg, for a hospital and power plant, both buildings to be fireproof. Heating and ventilating systems, electric lights, elevators, dumb waiters, refrigerating machinery and laundry equipment. Cost $500,000. Previously noted.

LEBANON, PA.—Richardson & Burgess, Washington, D. C., were the lowest bidders, at $50,647, for construction of U. S. post office at Lebanon.

BALTIMORE, MD.—Pell & Corbett, Archs., 31 Union Square, New York, have completed plans for the Maryland Institute to be erected at Baltimore, for which Andrew Carnegie donated $400,000 toward the cost. Stone, marble, terra-cotta, 3½ stories, 140 × 115 ft. Adams & Schwab, Consult. Engrs., 420 Walnut St., Philadelphia, Pa.

BALTIMORE, MD.—Adolphus F. Perot, 410 Forest Road, Rowland Park, Md., has commissioned W. H. Hodges, Arch., Wilson Bldg., to prepare plans and specifications for 30 dwellings to be erected on Potomac and Preston Sts.

Coggins & Owens, 102 North Frederick St., have awarded contract to JAMES F. FAIRLEY, 207 North St., for construction of warehouse at 19 South Charles St.; five stories, 19 × 168 ft. Henry J. Tinley, Arch., 11 East Lexington St.

The Glenn estate, John Glenn & Co., agents, 312 St. Paul St., has awarded contract to D. W. & G. H. THOMAS, Vickers Bldg., for construction of store and office building on St. Paul St., near Fayette St.; three stories, 54.6 × 73 ft. E. H. Glidden, Arch., Wilson Bldg., 301 North Charles St.

As all of the bids submitted were too high for construction of warehouses and office building at Lombard, Gay and Frederick Sts., for the Johns Hopkins Hospital Trust Estate, Calvert Bldg., revised plans will be made and new bids asked. Archer & Allen, Archs., Central Savings Bank Bldg.

All bids submitted were too high and were rejected by Municipal Board of Awards, City Hall, for the construction of an addition to Women's prison.

WASHINGTON, D. C.—A. O. Von Herbulis, Arch., 1416 F St., N. W., has completed plans for Georgetown University's proposed gymnasium building. Fireproof, 3 stories, 90 × 170 ft. Cost $150,000.

ROANOKE, VA.—Baldwin & Pennington, Archs., 311 North Charles St., Baltimore, Md., have invited bids for department store and office building. Watt, Rettew & Clay. Brick, 6 stories, 100 × 195 ft.

NORFOLK, VA.—The United Realty Owners' Corporation has perfected its plans for the erection of a $150,000 office building at Granby and Plume Sts., to be known as the "Law Building."

NORFOLK, VA.—The School Board will ask the Councils for an appropriation of $60,000 for the erection of a grammar school.

WINSTON, N. C.—The following bids were opened June 21, at the office of Jas. Knox Taylor, Supvr. Arch., Washington, D. C., for construction of U. S. post office at Winston: R. H. Richardson & Son, Hampton, Va., $49,972; E. C. Bowman, Binghampton, Ala., $47,900; King Lumber Co., Charlottesville, Va., $47,740; Central Caroline Const. Co., Greensboro, $39,617; General Supply and Const. Co., New York, $37,440; Mankin Const. Co., Richmond, Va., $47,673; R. T. Wordrep & Son, Knoxville, Tenn., $45,000; Miles & Bradt Co., Atlanta, Ga., $44,900; E. Hart, Norfolk, Va., $47,939.

ROCK HILL, S. C.—Contract for the erection of post office here has been awarded to MOISE DE LEON, Atlanta, Ga. Cost, $32,500.

AIKEN, S. C.—Chas. C. Wilson, Arch., Columbia, S. C., is preparing plans for a hotel to be erected at Aiken by C. W. Perkins and associates. Brick and stone, 4 stories, 300 × 300 ft. Power plant for heating, generating electric light current, operating elevators, laundry machinery, etc., will be required. Contracts will probably be awarded in the fall. Cost of building $250,000; equipment $50,000.

MOUNT VERNON, GA.—Alexander Blair, Arch., 673 Cherry St., Macon, Ga., has prepared plans and bids will be received until July 3, for a court house to be erected at **Mt. Vernon, for Montgomery County.**

PLAQUEMINE, LA.—The contract for the new court house to be erected here has been awarded to JOHN ARTHUR, of Shreveport, La., for $39,500. Bids were opened June 10, as advertised in Engineering News.

NEW ORLEANS, LA.—It is reported that the Young Men's Hebrew Association will spend $130,000 in the erection of a new building to replace one destroyed by fire last winter.

MEMPHIS, TENN.—County Commissioners have issued $1,000,000 bonds for the erection of a new court house. Site has not yet been selected. Levi Joy, Secy. Previously noted.

COVINGTON, KY.—A building permit has been issued to Father Wm. Tappert for the new $95,000 parochial school to be built on Sixth St.

LOUISVILLE, KY.—Contract for the erection of office building and warehouse of the Belknap Hardware & Mfg. Co., at Second and Washington Sts., has been let to ROMMEL BROS., 915 East Broadway, Louisville. Cost $200,000.

COLUMBUS, O.—Frank L. Packard, Arch., New Hayden Bldg., awarded contract to NICHOLS & CARR for the erection of 16-story fireproof office building for Capitol Savings & Trust Co., at High and Broad Sts. Cost $200,000.

BUCYRUS, O.—Bids are asked by Board Public Safety until July 12, for the erection of an engine house. Chas. R. Weatherhogg, Arch., Ft. Wayne, Ind.

CLEVELAND, O.—The Hough Avenue Saving & Banking Co., 663 Hough Ave., will erect a building on Crawford Road, and is having plans prepared by W. L. Stoddard, Arch., 1 Union Square, New York. Plans will be ready for bidding about July 15.

HARSHMAN, O.—Bids are asked by Otto Gemin, Clk. Board of Education, until July 17, for building of a schoolhouse in subdistrict No. 1.

YOUNGSTOWN, O.—Bids are asked by W. N. Ashbaugh, Clk. Bd. of Education, until July 18, for furnishing material and labor necessary to construct a ten-room stone and brick school building on Myrtle Ave.; for construction of a four-room stone and brick school building on Portland Ave., and also for constructing a two-room addition to McGuffey School.

IRONTON, O.—Bids are asked by D. L. Ogg, Clk. Bd. of Education, until July 11, 12 M., (readvertisement) to complete the heating and ventilating system for Kingsbury School.

PERU, IND.—Crapsey & Lamm, Archs., Seventh and Race Sts., Cincinnati, O., have completed plans for a three-story building, 133 × 118 ft., which will be erected at Broadway and Fifth St., for Bearss, McCaffery & Sullivan. Cost $50,000. J. B. GOODALL has been awarded the general contract.

INDIANAPOLIS, IND.—Bids will be received until July 10, for the erection of the proposed building for Grand Lodge of Indiana Knights of Pythias, at Pennsylvania St. and Massachusetts Ave. Cost $300,000. J. F. Alexander & Son, Archs., Lafayette, Ind.

INDIANAPOLIS, IND.—John E. Cleland, Business Director of School Board, is asking for bids until July 11, for the erection complete of an addition to Public School No. 18 on Barth Ave. Clarence Martindale, Arch., Indiana Trust Bldg.

INDIANAPOLIS, IND.—The Treasury Department, Washington, D. C., has awarded contracts for 44 buildings—heating, plumbing and electric wiring, for Indianapolis Army Post as follows: To HEINZMAN BROS., Noblesville, Ind., six double barracks, $235,000; quartermasters and subsistence store house, $25,000. W. J. TUMES, Chicago, Ill., guard house, $18,998. WOLF & EWING, Indianapolis, ordnance storehouse, $2,200; oil house, $812; coal shed, $3,547; hay shed, $3,231; shops, $4,097. H. B. WALTERS CONST. CO., Danville, Ill., 8 double captains' quarters and 6 double lieutenants' quarters, $217,800. W. P. JUNGCLAUS, Indianapolis, commanding officers' quarters, $12,800; 4 field officers' quarters, $45,000; bachelor officers' quarters, $29,000; 2 non-commissioned staff officers' quarters, $26,800; non-commissioned officers' quarters, $3,400; hospital, $31,400; band barracks, $13,900; administration building, $18,900; stable, $16,400; wagon shed, $3,500; fire engine house, $2,200; bakery, $8,300; granary, $10,000. J. S. FARREL & CO., Indianapolis, heating, $53,939; electric wiring, $8,964. FOLEY BROS., Indianapolis, plumbing, $68,346. ROYSE ELECTRIC CO., Indianapolis, electric wiring, $2,538.

BLOOMINGTON, IND.—The Board of Trustees of Indiana University has approved and accepted plans for new $100,000 library building to be erected here. Specifications will be ready July 7, and bids will be received Aug. 9. Wm. L. Bryan, Pres.

ANN ARBOR, MICH.—E. M. CAMPFIELD, of Findlay, has been awarded contract to erect two building at Ann Arbor, one a school building and the other a Carnegie library building, the two contracts amounting to $250,000.

ADRIAN, MICH.—Bids are asked by James Knox Taylor, Supv. Arch., Washington, D. C., until Aug. 7, for construction complete of the U. S. post-office at Adrian.

CHICAGO, ILL.—D. H. Burnham, Arch., 9 Jackson Blvd., let the mason contract for department store building, to be erected at Washington and State Sts., for Marshall Field & Co., to J. GRIFFITH & SON, 135 Adams St. Brick and stone, 12 stories, 146 × 150 ft. Cost $1,000,000.

ROCKFORD, ILL.—G. Maffoll was the lowest bidder, at $83,000, for the erection of an addition to Garrison School.

MORNING SUN, IA.—Bids are asked by J. K. Latta, Secy., until July 24, for the erection of a school building, including all labor and material. J. G. Ralston, Arch., Waterloo, Ia.

ATLANTIC, IA.—H. A. Paine, Albert Lea, Minn., **was lowest bidder, at $26,000, for construction of U. S. post-office at Atlantic.** Bids opened June 19, by James Knox Taylor, Supv. Arch., at Washington, D. C.

MANHATTAN, KAN.—Bids will be received by County Commissioners, July 20, for erecting court-house, according to plans made by Geo. A. Berlinghof, Arch., Beatrice, Neb. Claude M. Breese, Co. Clk.

FORT TOTTEN, N. DAK.—Bids are asked by C. F. Larrabee, Act. Comr. of Indian Affairs, Washington, D. C., until July 27, for construction complete, three day school buildings and three employes' quarters for day schools, on Turtle Mountain Reservation.

SPRINGFIELD, MO.—The Colonial Hotel & Building Co. has been organized to erect $175,000 hotel.

COLORADO SPRINGS, COLO.—The following bids were opened June 20, at office of Jas. Knox Taylor, Supv. Arch., Washington, D. C., for construction of U. S. post-office and court-house at Colorado Springs: Lynn S. Atkinson, Colorado Springs, $117,422; Kroeger & Rheiner, San Antonio, Tex., $97,637; James A. McGonigle, Leavenworth, Kan., $116,400; G. W. Atkinson & Son, Colorado Springs, $115,829; Gillis Brothers Lumber & Building Co., Colorado Springs, $123,000; H. A. Paine, Albert Lea, Minn., $109,274; Deiter & Wenzel, Joplin, Mo., $96,108; William H. Maxwell, Pierre, S. D., $108,321; Morrison Contracting & Mfg. Co., $114,980; Thomas H. O'Neil, Denver, Colo., $116,900; J. H. Wiese, South Omaha, Neb., $101,250; Tom Lovell, Denton, Tex., $107,935; F. L. Stevenson Contract Co., Dallas, Tex., $119,800; William Weber, Beaumont, Tex., $116,000.

LOS ANGELES, CAL.—A local syndicate is preparing to erect a new theater at 320 South Main St., on the site of the Panorama stables. It will cost about $100,000.

LOS ANGELES, CAL.—Cohn, Coldwater & Co. will erect a large business building, between Second and Third Sts. Cost between $70,000 and $75,000.

PRESCOTT, ARIZ.—Following bids were received June 12, at office of Constructing Quartermaster, Whipple Barracks, for erection of barracks, all proposals received in response to a previous advertisement having been rejected: B. M. Zadeck Co., Chicago, Ill., $318,900 (all or none of the work); Morrison Contracting & Mfg. Co., Denver, Colo., $334,970 (not less than $150,000 worth of the work); J. W. Wright, Leavenworth, Kan., $324,835 (not less than ½ the work); F. H. Barnes, San Francisco, Cal., $275,478 (not less than ⅔ of the work); Congress Construction Co., Chicago, Ill., $297,081 (not less than ⅓ the work); Burrell Construction Co., Oakland, Cal., $299,840 (about ½ the work).

RENO, NEV.—The only bid received for construction, complete, of U. S. post-office here was from Wm. H. Maxwell, Pierre, S. Dak., at $48,665. Jas. Knox Taylor is Supv. Arch., Washington, D. C.

TORONTO, ONT.—Plans are under consideration for the erection of a three-story addition to St. Michael's Hospital on Bond St., to cost at least $50,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

FORT LEVETT, ME.—Contract for sinking well at this fort has been let to W. G. PATTERSON, Worcester, Mass., for $6,000; contract for water, sewer and drainage system was let to W. B. BRYNE, West Medford, Mass., for about $19,000. Bids were received at Portland, Me., June 17, by Capt. A. W. Yates, Q. M., U. S. A.

SPRINGVALE, ME.—Springvale Aqueduct Co. is stated to have awarded contract for installing practically new system of water pipes from Litt'efields Pond through streets of this place to L. N. FARNUM, 53 State St., Boston, Mass.

PORTSMOUTH, N. H.—Contract for constructing water distribution system at Fort Constitution, for U. S. Government, has been let to PORTSMOUTH HEATING & PLUMBING Co., Portsmouth, N. H., for $4,397.

SWANTON, VT.—We are informed that preliminary survey has been made for new water supply which it is proposed to connect with present municipal system. No meeting has been called, however, nor has any decision been reached. New line, if adopted, probably will not be put in before next year. Source of new supply is from pond 9½ miles distant, and would give gravity pressure. Estimated cost of work is $75,000. M. W. Barney is official in charge.

DRACUT, MASS.—George H. Stevens writes us that an election of water commissioners was to be held June 21, and that proposed new water-works for Dracut Water District will be put in soon. Source of new supply had not been determined.

LAWRENCE, MASS.—We are informed that it is not probable that the city will construct a filter bed this season. Efforts are being made to get water in sufficient quantity and quality from driven wells, and if these are successful an additional filter plant will never be built. A. D. Marble is Cy. Engr.

AMESBURY, MASS.—We are informed that a special town meeting was to be held June 27 to consider purchase of rights and property of Powow Hill Water Co. Chas. N. Currier is Town Clk.

PEABODY, MASS.—We are informed that bids will be asked soon for proposed extension of town water-works to be made at an estimated cost of $120,000; 20-in. and 24-in. cast-iron pipe will be required. Snow & Barbour, Boston, Mass., are Des. Engrs., and H. F. Walker, Chn. Water Supply Com., is official in charge.

NEWBURYPORT, MASS.—We are informed that city has awarded contract for 6-in. and 14-in. pipe to the WARREN FOUNDRY CO. The pipe will be laid by contract work, and bids for doing this will be asked soon. F. C. Coffin, Boston, Mass., is Des. Engr.; H. S. Noyes is Secy. W.-W. Comrs.

ANSONIA, CONN.—W[illegible] informed that the Ansonia Water Co[illegible] the repairing of the Middle reservoir[illegible] plans and specificatio[illegible] according to Brooklyn, N. Y. Mr. [illegible] Hill cuse, N. Y., is superin[illegible] of Syra is official in charge. [illegible] the work and Supt. W.-W. [illegible] Hopkins

LYONS FALLS, N. [illegible] are informed that this village is cons[illegible] the municipal ownership of the local [illegible] and that a preliminary survey, [illegible] estimate of cost with this end in [illegible] made by the Village Board by [illegible] & Hopkins Engrs., Rome, N. Y.

CLINTON, N. Y.—C[illegible] for building reservoir which will dou[illegible] city of water-works of Hamilton Co[illegible] been let to TROY PUBLIC WORKS [illegible] N. Y.

OSWEGO, N. Y.—Bid[illegible] asked by Department of Water, F[illegible] Secy. until 12 noon, July 1, fo[illegible] and for erection of pumping [illegible] and material for Lake Water Exten[illegible] water station.

SANDY HILL, N. Y.—[illegible] Water Co., of Sandy Hill [illegible] Brook lagher, Secy., contemplate [illegible] W. J. Gal reservoir and making other [illegible] ing the pres water system this seaso[illegible] to the

NEW YORK, N. Y.—[illegible] John Oakley, Comr. Wate[illegible] asked by Electricity, until 2 p. m., [illegible] Y. Gas and ing and delivering cast iro[illegible] for furnish castings [illegible] and special

NEW YORK, N. Y.—B[illegible] asked by John T. Oakley, Comr. W[illegible] Gas and Electricity, until 2 p. [illegible] 19, for furnishing, constructing an[illegible] three electrically-driven pumps, w[illegible] appliances complete for high-pressure [illegible] service in a pumping station to be erect[illegible] the north-west corner of Willoughby [illegible] St. Edward Sts., Borough of Brooklyn; a[illegible] for furnish ing, constructing and insta[illegible] five elec trically-driven pumps, with [illegible] appliances complete for high-pressure fi[illegible] service in a pumping station to be erected [illegible] the north-west corner of Furman and [illegible] Sts., Borough of Brooklyn.

NEW YORK, N. Y.—An ord[illegible] has been issued by the Supreme Court [illegible] temporarily restraining John T. Oakley, Comr. Water Supply, Gas and Electricity, from awarding contract to A. P. Smith Mfg. Co. for hydrants for the new high pressure fire service mains. The bid of the A. P. Smith Co. was $104,000 and the injunction was granted on the application of the Kennedy Mfg. Co., whose bid was $88,000.

SLATINGTON, PA.—Bids are asked by Washington Water Supply Co. Ira Seidle Secy., until 2 p. m., July 11 for furnishing material and constructing gravity system of water-works. Warren F. Crossman, Engr., Sellersville, Pa. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Mayor Weaver has revoked contract with Daniel J. McNichol for furnishing filter sand and gravel and terra cotta lateral collectors for the Torresdale filtration plant and has directed A. Lincoln Acker, Dir. Pub. Wks., to call for new bids. Original contract was signed March 4, 1901, and amounted to about $700,000 and is said to have been about 30% complete.

WILMINGTON, DEL.—Water Commissioners are stated to have awarded contract for two 300-HP. boilers for the new water plant to EDGEMOOR IRON CO. for $8,770. Bids were received June 16.

COLUMBIA, S. C.—Bids are asked by Board Water Commissioners, J. W. Babcock, Chn., until 10 a. m., Aug. 8, for furnishing materials and constructing a water-works system for this city. Work will embrace approximately 12 miles of cast-iron pipe, 6-in. to 24-in. diameter, standpipe, turbine waterwheels, power pumps, centrifugal pumps, filtration plant, pumping engines, boilers, engines, power station, hydrants, gate valves and other appurtenances. J. M. Ludlow, Egr., Winston, N. C. (Advertised, Engineering News.)

NEWTON, N. C.—We are informed that this town has granted a conditional water-works franchise to the National Water-Works & Power Co. A meeting will be held in 30 to 60 days to complete the contract. W. B. Gaither is Mayor.

BOLIVER, TENN.—We are informed that an engineer is to be secured to make surveys, etc., for new water-works and light plant for this place. Supply is to be from deep wells. R. C. Wilkinson is Mayor.

ARCANUM, O.—See under Light and Power Plants.

COLUMBUS, O.—Board Public Service has awarded contract for construction of water filtration plant to WESTWATER & CASEY, Columbus, O., for $524,200. Bids for the work were opened June 15 and were given in our dissue of June 22.

CINCINNATI, O.—Contract for laying water mains in Wade, Cutter and Faulkner Sts. and McLean, Western and Spring Grove Aves. has been awarded to GUY M. GRAY for a total of $33,923. Bids were received June 15. Water-Works Commissioners also awarded contract for two 2,500,000-gallon pumping engines and boilers for Western Hills pumping station to SNOW STEAM PUMP Co., Buffalo, N. Y., for $33,600.

FLORA, IND.—We are informed that National Construction Co., South Bend, Ind., is Des. Engr. for proposed municipal waterworks for which a bond election is to be held July 11. Estimated cost is $12,000. Robert Toole, Town Clk., is official in charge. Mentioned June 15.

QUINNESEC, MICH.—Contract for installing water-works here is stated to have been let to THEODORE FOIME, Iron Mountain, Mich.; material is reported as already on the ground.

CHARLOTTE, MICH.—We are informed that city will extend its water system at a cost of $10,000. No bids will be called for, as city will do the work itself. G. W. Richardson, Cy. Engr., is official in charge.

DANFORTH, ILL.—Bids will be received until July ... 1 p. m., for the following: Pumping station, one 15-HP. and one 20-HP. gasoline engine, one deep well power pump, one triplex ... power pump, one elevated steel tank, one ... masonry reservoir; also combined ... meter storage tanks. Plans and specifications may be seen at office of Village Clerk. ... A. Earl, Consult. Engr., 1416 First Natl. ... Bldg., Chicago.

ROODHOUSE, ILL.—We are informed that this city ... let a contract for a system of water-... and that plans and specifications are ... being prepared for steel tower and tank ... other extensions to the system. H. ... Battershell is Chn. of W.-W. Com. and ... Ford, Consulting and Supervising ... Security Bldg., St. Louis, Mo. ... to press reports the contract referred to ... was let to R. O. BROMAGIN, Lexington, Ill., for $11,664.

CHICAGO, ILL.—Bids were opened June 20 by Department of Public Works for furnishing and erecting four pumping engines, the contract ... awarded to ALLIS-CHALMERS Co., Chicago, Ill., for $127,900. The contract includes the following: One triple expansion ... condensing screw pumping engine, capacity ... cu. ft. per second; two compound ... condensing centrifugal pumping engines, ... each 125 cu. ft. per second; one compound ... condensing centrifugal pumping engine ... capacity, 37½ cu. ft. per second; auxiliaries, including 80-ft., 15T-ton electric crane.

WAUKESHA, WIS.—We are informed that the council is considering the granting of a 20-year franchise to the present water-works company or to a new company, or it may purchase the present plant. William Powrie is Cy. Engr.

TWO RIVERS, WIS.—Bids are asked by Water and Light Commission, J. G. Welley, Secy., until 7.30 p. m., July 5, for laying 665 ft. of 6-in. pipe; pipe, etc., to be furnished by city.

TAMA, IA.—Bids are asked by H. J. Ferguson, Cy. Clk., until July 11 for sinking three wells; bids will also be received for improvements to water system, including power house, pumping machinery, boilers, mains and connections.

DULUTH, MINN.—We are informed that Thos. F. McGilvray, Cy. Engr., has completed specifications for a 10,000,000-gallon reservoir for Lloyds Division, West Duluth. Estimated cost is $12,000 and contract will be let some time in July. L. N. Case, Mgr. Water and Light Comn., is official in charge.

OTTAWA, KAN.—This city is having prepared estimates and plans for a municipal water-works and electric light plant. John Helloren is Mayor and Owen Ford, Security Bldg., St. Louis, Mo., is Consult. Engr.

REDFIELD, S. DAK.—State Board of Charities and Corrections, Pierre, S. Dak., will receive bids until 10 a. m., July 11, for sinking an artesian well at the Northern Hospital.

YANKTON, S. DAK.—Bids are asked by A. D. Russell, Cy. Clk., until 8 p. m., July 3 for a 22-ft. × 50-ft. steel standpipe; also for cypress tank, 30 ft. × 20 ft., on 20-ft. steel tower.

JACKSON, MO.—We are informed that a vote was to be taken June 27 on construction of municipal water-works to cost $27,000. Plans are to be prepared in July and bids will probably be received about Aug. 1. Hiram Phillips, 615 Frisco Bldg., St. Louis, Mo., is Engr.; Edw. D. Hays is Mayor.

COLORADO SPRINGS, COLO.—We are informed that Northfield Land & Water Co., C. E. Titus, Gen. Mgr., will build a 1,000,000-gallon distributing reservoir at an estimated cost of $6,000, the work being done by the company itself.

DENVER, COLO.—Contracts for construction of main canal, North Platte Project, Nebraska, bids for which were received May 16 and were given under Contract Prices in our issue of June 8, have been awarded as follows: ROBINSON & MANEY, 1600 Chemical Bldg., St. Louis, Mo., Divisions 1, 2, 6, 7, 9 and 10, $250,187; GRIFFITH & McDERMOTT, 1011 Merchants' Trust Bldg., Chicago, Ill., Division 3, $73,135; DEADWOOD CONSTRUCTION CO., Deadwood, S. Dak., Division 4, $32,695; ORMAN & CROOK, Pueblo, Colo., Division 5, $76,647; JAMES O'CONNOR, Morgantown, Ind., Division 8, $37,540.

SEATTLE, WASH.—Ordinances have been passed ordering the construction of water mains in North 76th St., at a cost of $11,470. Council has also passed petition calling for construction of water mains in Lane St., at an estimated cost of $26,200. R. H. Thomson is Cy. Engr.

YAMPA, COLO.—Keyser Mutual Ditch Co. has awarded contract for constructing two miles of irrigation canal to JOHN F. WILSON, Yampa, for $4,500.

FARMINGTON, N. MEX.—We are informed that city has granted franchise to a company to put in a water supply. H. M. Pierce is Cy. Clk.

WHITTIER, CAL.—Bids were to have been opened June 12 by this city for construction of water-works, but it was finally decided to change the specifications and call for new bids to be opened July 10. Frank H. Olmsted, 616 Grant B'dg., Los Angeles, Cal., is Engr., and E. C. Butterfield, Cy. Clk. Mentioned in our issue of May 18.

SAN JOSE, CAL.—Clerk County Supervisors is stated to be calling for bids until 10 a. m., July 5, for furnishing 7,000 ft. of 1-in. and 10,000 ft. of 2-in. standard wrought-iron asphaltum dipped pipe.

REDWOOD CITY, CAL.—Council has signed new water supply contract with Redwood City Water Co., under terms of which, it is said, latter will be forced to make considerable improvements.

GLEN ELLEN, CAL.—We are informed that reservoir at this place for Home for Feeble Minded is to be built of reinforced concrete and is to hold 420,000 gallons. It will be built by day labor under the supervision of N. Ellery, Highway Comr. Est. cost is $5,000.

HAYWARDS, CAL.—Contract for constructing 300,000-gallon cement reservoir for Hunt Bros. cannery has been let to THOMAS RUSSELL.

NIAGARA FALLS, ONT.—We are informed that steps are being taken to secure higher water level in the intake. To do this it is proposed to build a wing dam at the outer rocks. J. H. Jackson is Cy. Engr.

BOISE, IDAHO.—Bids were opened June 15 by the U. S. Reclamation Service for the construction of a distribution system of irrigation canals in connection with the Minidoka Project, Idaho. The work was divided into eight schedules, the lowest bidder on each of these being as follows: Orman & Crook, Pueblo, Colo., Schedule 1, $188,788; Schedule 5, $21,576; Schedule 6, $114,120; Schedule 7, bridges and structures, $6,847; Schedule 7, bridges and structures, Branch A, $4,459; Schedule 7, Branch B, $5,563; Schedule 7, Branch C, $1,969; Schedule 7, bridges and structures, Main S. S. Canal, $11,640; total for schedule, $30,438. Hubbard & Carlson, Boise, Idaho, Schedule 2, $121,494. Monarch & Porter, Des Moines, Ia., Schedule 3, $137,184; Schedule 4, $57,643. Vulcan Iron Works, Chicago, Ill., Schedule 8, $9,471.

GLACE BAY, N. S.—Bids are asked by N. F. McNeil by July 4 for supply of water pipes, excavation of pipe line, laying, etc.

DALHOUSIE, N. B.—Engineer will be secured by this place to furnish estimates of probable cost of water-works, sewerage and electric light system.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

HOLYOKE, MASS.—The Board Public Works has ordered that a sewer be constructed in Westfield Road. Jas. L. Tighe, Cy. Engr., was also instructed to prepare plans and specifications for proposed sewer in Gilman St.

WESTFIELD, MASS.—Bids are asked by Committee on Surface Sewerage, Richard J. Morrissey, Chn., until July 17, for constructing stone water sewers. Oren E. Parks, Town. Engr. (Advertised, Engineering News.)

WATERBURY, CONN.—Contract for constructing Section 1 of main carrier sewer for this city has been awarded to McGOVERN CONSTRUCTION CO., Trenton, N. J., for $64,445. Bids were received June 20. R. A. Cairns is Cy. Engr. Itemized bids will be given under Contract Prices.

TORRINGTON, CONN.—Bids were opened June 20, as advertised in **Engineering News**, for constructing sewers, as follows: SEYMOUR CLARK HILLS CO., Springfield, Mass., $9,071 (awarded contract); Ambrose Robbiati, Torrington, $9,383; E. A. Terry, Derby, Conn., $11,425; **Henry Spinach, Naugatuck, Conn., $11,521.** Bernard E. Higgins, Boro. Clk.

RENSSELAER, N. Y.—Bids are asked by John G. Salt, Cy. Clk., until July 5, 8 p. m., for construction of sewers in Birch, Seventh, Chestnut, Dale and Sixth Sts. and Central Ave.

BRONXVILLE, N. Y.—The following bids were received June 16 for constructing sewers: Abott-Camble Co., $55,100; Peace Bros., $53,389; Neff Co., $48,562; Grady, Kearns & Hart, $44,390; Coty & Nolan, $43,967; M. J. Leahy, $37,470; Bellew & Merritt, $31,219; Greenberg & Stevenson, $28,818; De Nallo & Klingberg, $29,668. For pumps and motors, Greenberg & Stevenson bid $2,460; Camden Iron Works, $2,100, and Reis & O'Donovan, $1,590. Chas. W. Leavitt, Jr., Engr., New York.

ALBANY, N. Y.—The Board of Contract and Supply awarded the following sewer contracts: Lancaster Dove and Orange Sts., JOS. F. SHEEHAN, $2,184, $960 and $25,128, respectively; Quail St., MULDERRY BROS., $1,419; South Pearl St., JOHN DOYLE, $10,067.

BROOKLYN, N. Y.—Plans for an interborough sewer between the Boroughs of Brooklyn and Queens have been drawn, and it will be the largest waste conduit in the world, so John C. Brackenridge, Comr. Pub. Wks., of Brooklyn, states. It will be four miles long and about 60 ft. in circumference, will begin at Forest Park, Queens Borough, and will run through Myrtle Ave. to St. Nicholas Ave., Williamsburg, and then branch off into Queens Borough again, emptying into Newtown Creek at the foot of Scott St. The cost will be $4,000,000, or about $1,000,000 a mile. The purpose is to drain the districts of Williamsburgh and Queens where the city has had to pay damages for sewer overflows in heavy storms.

BUFFALO, N. Y.—Bids are asked by Department of Public Works until July 6, 11 a. m., for construction of a 15, 12 and 10-in. tile sewer in Kenefick Ave., between South Side Parkway and Abbott Road. Francis G. Ward, Comr. Pub. Wks.

SCOTIA, N. Y.—Contract was awarded by Village Trustees for constructing sewers to DE NALLO & KLINGBERG, of Kingston, N. Y., for $12,317. Bids were opened June 22, as advertised in Engineering News. Jas. A. Hoyt, Jr., Vil. Clk.

ELIZABETH, N. J.—The Committee on Sewers has recommended to City Council that sewers be built in East Grand and South Front Sts. The recommendation was adopted. W. H. Luster, Jr., Cy. Engr.

BALTIMORE, MD.—E. Clay Timanus, Mayor, has appointed Gen. Peter Leary, Jr. (chairman), Dr. Ira Remsen, Chas. England, W. D. Platt, Morris Whitridge and Mr. Mohler as members of sewerage commission, which will have charge of constructing sewerage system for Baltimore, for which $10,000,000 was recently voted by the people. The commission has selected Rudolph Hering, 170 Broadway, New York; Samuel M. Gray, Banigan Bldg., Providence, R. I., and F. B. Stearns, 89 State St., Boston, Mass., as engineers to suggest separately plans for the disposal works. The commission has its offices in the American Bldg., Baltimore and South Sts.

WASHINGTON, D. C.—JAMES A. COYLE has contract at $3,384 for construction of sewer in Jefferson St. and on Fort Stanton Road, Anacostia, and E. G. GUMMEL has contract at $6,104 for constructing sewer in Ninth St., S. E.

PETERSBURG, VA.—Plans for proposed sewers will be prepared by Robt. D. Budd, Cy. Engr., and the work done by city. G. B. Gill, Cy. Audr.

LAWRENCE, S. C.—Specifications for constructing sewerage system are on file at office of Engineering News, 220 Broadway, New York. Bids will be received until July 25, as advertised in Engineering News.

LAURENS, S. C.—Bids are asked by Board Sewer Commissioners, W. R. Richey, Chn., until July 25, for furnishing materials and constructing sewerage system, consisting of approximately seven miles of 8-in. to 18-in. pipe sewers. J. L. Ludlow, Engr., Winston, N. C. (Advertised, Engineering News.)

COVINGTON, KY.—W. B. Gunn, Cy. Engr., has prepared plans and estimates for an extension of Willow Run sewer, to be built of concrete. Est. cost, $12,463.

HOPKINSVILE, KY.—Geo. Gardner and Chas. Robertson, of Paducah, Ky., have the contract, it is stated, for furnishing plans and specifications for proposed sanitary sewerage system.

ALLIANCE, O.—Bids will be received until Aug. 5 for 25,000 lin. ft. of 6 and 8-in. sanitary pipe sewers. Est. cost, $20,000. O. E. Pfouts, Cy. Engr.

CHILLICOTHE, O.—Bids will be received by Board Public Service until July 1 for construction of about 6,000 ft. of 8, 10 and 12-in. pipe sewers. H. M. Redd, Cy. Engr.

CINCINNATI, O.—A contract for sewer in Colerain Ave., was awarded by Board Public Service June 12 to J. RUEBEL & BROS., of Cincinnati, for $12,018.

WARREN, O.—FRED KLEINMAN, of Findlay, O., has secured the contract to build an $18,000 sewer at Warren.

ST. BERNARD, O.—Bids are asked by Geo. Meyer, Vil. Clk., until July 12 for furnishing necessary labor and materials for constructing sewers in several streets. J. A. Stewart, Engr., Traction Bldg., Cincinnati.

COLUMBUS, IND.—Bids are asked until July 6, for construction of one-half mile of main sewer and laterals; estimated cost, $8,000. Wm. H. Rights, Engr.; Geo. Vorald, Cy. Clk. (Advertised, Engineering News.)

BLOOMINGTON, IND.—Council will probably order topographical map of city with view to installing a separate system of sewerage. U. S. Hanna, Cy. Civ. Engr.

LAFAYETTE, IND.—Bids are asked by Board Public Works until July 5, 7.30 p. m., for construction of sewer in alley from Sixth to Seventh Sts.

FRANKLIN, IND.—Bids will be received until July 11 for construction of about 13 miles of pipe sewers and a septic tank; est. cost, $50,000. Otis B. Sellers, Cy. Engr.

MARION, IND.—City Council has decided to construct a sewer from Fourth St. to Grant and East Sts., and on to the river. Est. cost, $10,000. Bids will be in order as soon as plans are completed.

DETROIT, MICH.—Wm. Porath was lowest bidder, at $3,391, for constructing sewers here.

EAST ST. LOUIS, ILL.—Contract for construction of sewer in 22d St. for this city has been let to GEISSEL CONSTRUCTION CO., St. Louis, Mo.

ASHLAND, WIS.—Bids are asked by Board Public Works until July 11, 10 a. m., for construction of an 8-in. sanitary sewer in alley between Vaughn and Sixth Aves.

CRESTON, IA.—All bids for construction of sewers in the city were rejected by City Council because of a misunderstanding of the contractors and new bids were advertised for A. W. Schimpff, is Cy. Clk.

MARSHALL, MINN.—Bids are asked by John R. Gray, Cy. Recdr., until July 8, 8 p. m., for construction of 1,384 ft. of 15-in. sewer and 1,315 ft. of 10-in. sewer.

NORTH PLATTE, NEB.—Bids are being asked by the city for construction of sewer mains. Charles Samelson, Cy. Clk. (Advertised, Engineering News.)

GROTON, S. DAK.—Bids will be received by W. A. Burnham, Cy. Audr., until July 17 for constructing an extension to sewerage system.

WACO, TEX.—Bids will be received by R. B. Dickey, Cy. Secy., until July 6 (readvertisement), for construction of a storm sewer on 18th St.

HOUSTON, TEX.—J. C. KELSOE, of Galveston, Tex., has been awarded contract for construction of sewer extensions in Fair Grounds at $11,822.

SEATTLE, WASH.—Ordinance has been passed ordering the construction of sewers on Fourth Ave. and adjacent streets. Est. cost, $8,900. R. H. Thompson, Cy. Engr.

SEATTLE, WASH.—See under Streets and Roads.

TACOMA, WASH.—Resolution has passed City Council ordering the construction of sanitary sewers of 8-in. pipe in local improvement district No. 150. Frank L. Davis is Cy. Engr.

SAN FRANCISCO, CAL.—The Board Public Works has recommended the construction of a storm sewer, a sewer for sewerage only, on Fourth St., between Brannan and Berry Sts., at an estimated cost of $75,000. Thos. P. Woodward is Cy. Engr.

SAN FRANCISCO, CAL.—There will be a sewage pumping station in the West Richmond District near the end of Fulton St. Plans have not yet been prepared.

OGDEN, UTAH.—Bids are asked until July 22, for construction of sewers in Sewer District No. 10. Est. cost, $85,000. A. F. Parker, Cy. Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked by Department of Public Charities, James H. Tully, Comr., until 12 noon, July 6, for furnishing material and labor for erection of new garbage crematory and apparatus at Randall's Island.

WASHINGTON, D. C.—Bids are asked by Isthmian Canal Commission until July 24 for furnishing a destructor at Las Cascas, Isthmus of Panama. (Advertised, Engineering News.)

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

WORCESTER, MASS.—The Common Council has adopted the order appropriating $30,000 for permanent street improvements. Frederick A. McClure is Cy. Engr.

BOSTON, MASS.—Bids are asked by Bureau of Yards and Docks, U. S. N., Washington, D. C., until July 15, 11 a. m., for brick paving and concrete sidewalks at navy yard, Boston. Specifications on file in office of Engineering News, 220 Broadway, New York. Mordecai T. Endicott, Ch. of Bureau.

PROVIDENCE, R. I.—Bids are asked by State Board of Public Roads until July 12 for construction of state highways in various towns aggregating about 50,000 ft.

TIVERTON, R. I.—Bids are asked by Town council until July 1 for construction of one mile of stone road. E. M. Corbett, Engr., 70 Bedford St., Fall River, Mass.

BRIDGEPORT, CONN.—Bids are asked by Committee on Streets and Sidewalks until 8 p. m. June 17 for laying about 13,000 sq. yds. of permanent pavement. E. T. Buckingham, Cy. Clk. (Advertised, Engineering News.)

ALBANY, N. Y.—Board of Contract and Supply awarded to M. F. DOLLARD the contract for paving of Liberty St. with granite block, at $8,668.

NEW YORK, N. Y.—The following bids were received June 20, by Louis F. Haffen, Boro. Pres., for regulating, grading, etc., in Bryant Ave.: Troy Public Works Co., $34,316; A. G. Vermilye, $34,740; Gallo & Pettelli, $35,284; P. J. Kane, $36,522; W. F. Murray, $37,451; P. J. Duffy, $39,443; M. Marrone, $40,400; J. C. Voorhees, $41,613.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until July 5, for grading, curbing, paving and laying sidewalks on various streets.

ALBANY, N. Y.—Mayor Gaus has approved the ordinance authorizing the paving of Mulberry St. Walter Mellus is Cy. Engr.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. of Water Supply, until July 5, for furnishing materials, repairing and restoring artificial stone sidewalks and surbing and resetting natural stone curbing.

BUFFALO, N. Y.—Bids are asked by Department Public Works until July 7, 11 a. m., for repairing all asphalt pavements out of guarantee and not beyond repair, for the fiscal year 1905 and 1906. Francis G. Ward, Comr. Pub. Wks.

LONG ISLAND CITY (L. I.), N. Y.—Bids are asked by Jos. Cassidy, Boro. Pres., until July 10 for grading, curbing and paving with asphalt on Ninth Ave. and Carver St.

Bids will be received at the same time and place for grading, curbing and laying crosswalks on Radde and Crescent Sts.

NEW YORK, N. Y.—Bids are asked by the Park Board, John J. Pallas, Pres., until July 6 for repairing asphalt roadway as directed.

ONEONTA, N. Y.—Bids will be received by Board of Trustees until July 3, 7 p. m., for furnishing 4,400 lin. ft. bluestone curbing, 4,400 lin. ft. stone gutter strips, 150 bbls. Portland cement; cobble stones for 1,000 sq. yds. paving; 125 cu. yds. crushed stone; 200 cu. yds. sand.

TRENTON, N. J.—Bids are asked by Park Commissioners until July 3 for constructing a macadam road in Cadwallader Park.

LECNIA, N. J.—Bids will be received until July 5, 6 p. m., for grading and macadamizing Harold St. and Woodridge Place; est. cost $8,000. Willard Cass, Engr., Englewood.

HALEDON, N. J.—Bids are asked until July 1, 7 p. m., for grading and macadamizing North Second, North Third and Barnert Sts. and Haledon Ave. H. J. Harder, Engr., Paterson.

PATERSON, N. J.—About $36,000 worth of roads will be macadamized. David Wickham, Chn. Rd. Com., Court-House, Paterson.

ROSELLE, N. J.—Bids are asked by Mayor and Council until July 7, 8 p. m., for improving Aldene Road, from First Ave. to Amsterdam Ave., requiring about 1,050 cu. yds. of excavation and 2,000 sq. yds. of 4-in. slag pavement. H. C. Van Emburgh, Boro. Engr., 149 North Ave., Plainfield; G. A. Rawlins, Boro. Clk.

HARRISBURG, PA.—Bids are asked by State Highway Department until July 8 for constructing 6,140 ft. of road in Springettsburg Township, York County. Jos. W. Hunter, Comr.

PITTSBURG, PA.—Bids are asked by County Commissioners, until July 6, 12 M., for the improvement of certain public roads in

county known as the Lowry's Run and Mt. Nebo Road, Noblestown Road extension No. 2. Elizabeth and Monongahela City Road, Versailles Road, Monongahela City and Elizabeth Road, via lock No. 3, and Three Degree and Gibsonia Road. F. W. Patterson, County Rd. Engr., 29 Court-House, Pittsburg.

WASHINGTON GROVE, MD.—The contract for building one mile of road from Muncester's Cross Roads, near here, to Laytonsville, has been awarded to JAMES M. MOUNT, of Damascus, Md.

FREDERICK, MD.—The CORYELL CONSTRUCTION CO., of Williamsport, Pa., was awarded contract for paving 5,877 sq. yds. of street with vitrified brick and 2,230 lin. ft. of granite curbing and 136 ft. of circular curbing.

BALTIMORE, MD.—A contract was awarded June 14 to UNITED STATES WOOD PRESERVING CO., 29 Broadway, New York, by Board of Awards, for 30,000 wood paving blocks, at 42 cts. a thousand.

DANVILLE, VA.—The city will do about $62,000 worth of brick street paving. Work will be done by the city. C. C. Snead, Chn. St. Com.

HUNTINGTON, W. VA.—City is considering the paving of certain portions of Fifth Ave. Address J. C. Miller.

GREENSBORO, N. C.—City contemplates laying about 20,000 sq. yds. of brick or bitulithic pavement during the summer. W. G. Potter is Cy. Engr.

GADSDEN, ALA.—City will vote July 10 on the issuance of $20,000 of bonds for street improvements.

GRENADA, MISS.—Board of Aldermen has let to SANDS, LAWSON & KEY, of Norfolk, Va., the contract for 50,000 sq. ft. of granolithic sidewalks, at 13 cts. per sq. ft.

SHREVEPORT, LA.—Bids are asked by C. G. Rives, Cy. Comptroller, until 6 p. m., Aug. 8 for paving several streets with asphalt, brick or pavement similar to bitulithic, or bitulithic. (Advertised, Engineering News.)

CLARINDA, IA.—Bids are asked by City Clerk until 12 noon July 7 for construction of about 10,380 sq. yds. brick paving and 6,955 lin. ft. of curbing. Wm. Christie, Jr., Engr., Red Oak, Ia. (Advertised, Engineering News.)

OWENSBORO, KY. — HENRY EIGENMANN, of Owensboro, received contract for constructing five miles of concrete pavement in Owensboro.

CLEVELAND, O.—Bids were received June 20 for grading a portion of Edgewater Park, the three lowest bidders being as follows: Northern Ohio Paving Co., $13,069; G. H. Bramley, $14,441; M. F. Condon, $14,962.

EAST LIVERPOOL, O.—The Township Trustees awarded to RINEHART BROS., of East Liverpool, the contract for paving Calcutta Road with brick, at $21,352. Willis Davideon, Twp. Clk.

ASHTABULA, O.—The paving of Fairfield Ave. has been indefinitely postponed until the sewer is built. Lewis A. Amsden, Cy. Engr.

BUCYRUS, O.—The contract for paving Sandusky Ave. was awarded to M. A. MELLIGAN, of Ironton, O. C. P. Bryant, Cy. Engr.

ASHLAND, O.—Bids will be received by Village Clerk until July 11 for furnishing materials for grading, curbing and paving a portion of Pleasant Ave.

YOUNGSTOWN, O.—An ordinance has passed City Council authorizing the paving of West Federal St.

XENIA, O.—Bids are asked by Board Public Service until July 27 for paving Market St. with brick, asphalt or bitulithic, about 17,430 sq. yds. G. A. McKay, Cy. Engr.

MASSILLON, O.—Board Public Service awarded to MEINHART & SON, of Massillon, the contract for paving several streets with brick block, about 18,668 sq. yds., at $1.09 per sq. yd. Bids were opened June 12. Harold Howald, Cy. Civ. Engr.

TOLEDO, O.—Board Public Service awarded to KERLIN BROS. the contract for paving on Central Ave., for $15,000. A five-inch vitrified block will be used.

VERNON, IND.—Bids will be received by County Commissioners until July 3 for constructing two miles of road in Spencer Township. P. B. Ewan, Chn.

BEDFORD, IND.—The contract for paving J St., with vitrified brick was awarded June 20 to ROBT. NAEGEL, of Greensburg, Ind., for $16,814. W. M. Denniston, Cy. Clk.

WABASH, IND.—Bids are asked by Fremont M'Lees, Cy. Clk., until July 10, 6 p. m., for construction of cement sidewalks on both sides of Columbus St. and Falls Ave.

BLOOMINGTON, IND.—Bids will soon be taken for macadamizing various streets, about 20,000 sq. yds. U. S. Hanna, Cy. Civ. Engr.

EVANSVILLE, IND.—The improvement of St. Joseph Ave. has been decided on and bids for construction of a brick pavement will soon be asked.

CROWN POINT, IND.—Bids will be received by County Commissioners until July 15 for construction of three miles of gravel road in Center Township. Walter L. Allman, County Audr.

CRAWFORDSVILLE, IND.—H. B. Hulett, Cy. Clk., will soon ask for bids for construction of combined cement curb and gutters in Market St., from Dubois to Oak St.

BEDFORD, IND.—City Council has awarded contract to ROBT. NAEGEL, of Greensburg, Ind., for paving on J St. with Terre Haute repressed vitrified blocks with stone sidewalks, for $16,815.

BAY CITY, MICH.—Bids were opened June 16 by Board Public Works for paving Columbus and Woodside Aves. The Cleveland Trinidad Asphalt Co. was lowest, at $31,357, for brick on Woodside Ave. For Columbus Ave., Patrick Ryan was lowest, at $68,941.

READERS' WANTS

If any one is in the market for any engineering or contracting supplies, the first thing to do is to refer to our advertising pages, but if the buyer cannot find what he wants we particularly ask that he notify us at once and we will inform the proper parties without cost to the inquirer. A copy of **ENGINEERING NEWS BUYERS' GUIDE** will be mailed to any one upon application. This paper will always appreciate any news notes regarding public, or important private work, and will be pleased to receive detailed items. Requests to hold names will be complied with in every case. **Do not fail to write our advertisers or us.**

CASTINGS.—Kansas City, Mo.—The Am. Floor Clamp & Mfg. Co. is reported in the market for steel and malleable castings.

IRON DOORS, BEAMS, ETC.—Greensboro, N. C.—A. L. Schlosser is in the market for the above, as is also Wm. P. Huffman, of Hickory, N. C.

BUILDING MATERIAL.—Spray, N. C.—The R. I. Co., Lawrence McRae, Arch., is reported as wanting prices on building material for the new factory; to be 100 × 200 ft.

STEEL BRIDGE.—Weldon, N. C.—T. C. Harrison is reported as wanting to be placed in touch with a concern who will take up the matter of building a steel bridge to be about 2,500 ft. long.

AGRICULTURAL IMPLEMENTS.—Bulawayo, Rhoderia, So. Africa.—F. Norris, P. O. Box 271, Bulawayo, is reported as wanting to be placed in touch with manufacturers of agricultural implements.

WROUGHT IRON GAS OR STEAM PIPE.—Brooklyn, N. Y.—Jos. G. Pollard, 141 Raymond St., writes us that he is in the market for several hundred feet of 1-in. wrought iron pipe in lengths of 7½ ft.

DRIVEN WELL SUPPLY MATERIALS.—Mount Vernon, N. Y.—Jno. F. Fairchild, C. E., Engineering Bldg., Mt. Vernon, writes us that he wants names of firms dealing in the above, particularly any devices for inspecting the volume of water pumped from the driven well. Information regarding rock drilled artesian wells is not wanted, but matter relative to driven wells is wanted.

USE OF COBALT OXIDE.—Glasgow, Mo.—Jas. W. Caples, of Glasgow, writes us that he has become interested in source of cobalt oxide, and writes to learn the names of firms who handle and use such material.

LAP-WELDED OR DRAIN TUBING SIZES.—Clearfield, Pa.—C. B. Alexander, E. M., Odd Fellows Bldg., writes us that he wants the names of makers of lap-welded or drain tubing sizes running from ⅛ to ⅝ ins.

ERECTING STEELWORK.—Lowell, Mass.—Conners Bros. Construction Co., 16 Thorndike St., writes us that it wants the names of firms that make a business of erecting steel for large buildings—not furnishing it, however.

STEEL WIRE FENCE MACHINES, ETC.—Germany.—Otto A. Berieben, of Dortmund, Germany, is understood as wanting to correspond with manufacturers of machines for making small wood screws, steel wire fencing, rivets, etc.

PUMPING ENGINES, PIPING, HOUSE FITTINGS, ETC.—Argentina.—Carlos Krag, C. E., Obas del Puerto, Concordia, Argentine, S. A., writes us that he will soon want prices on the above for the proposed water-works.

125 MILES OF 45-LB. RAILS (punched), FISH PLATES, BOLTS AND NUTS, METAL TIES, FASTENINGS, LIGHT TRAFFIC LOCOMOTIVES (3-ft. 6-in. gage), ETC.—Western Australia.—Frank R. Penott, William St. and St. George's Terrace, Perth, Western Australia, writes us that he is interested in a projected railway to be about 125 miles long, and wishes prices on the above, c. i. f. and e., steam shipment, Fremantle. Light draft.

CHARLOTTE, MICH.—Bids will be opened July 6, 2 p. m., for paving with either brick, bitulithic or asphalt, about 22,000 sq. yds. Est. cost, $35,000. J. B. Smith, Chn. Paving Com.; Riggs & Sherman, Engrs., The Nasby, Toledo, O.

GRAND RAPIDS, MICH.—Bids are being received for grading and graveling West Bridge St.; est. cost, $30,000. L. W. Anderson, Cy. Engr.

EAST ST. LOUIS, ILL.—Bids were received June 20 for paving streets of Trendley Heights subdivision with brick, the contract being let to McCABE & CO., 411 Oliver St., St. Louis, Mo. Work will cost about $9,970. The paving will be on 6 ins. of concrete. Contract for building granitoid walks on 21st and 22d Sts. has been let to MARK BIRD, East St. Louis, Ill.

CHICAGO, ILL.—The following streets have been ordered paved by Board Local Improvements and bids for the work will be asked at once: Union Ave., asphalt, $125,500; North Spalding Ave., brick, $34,000; 41st St., macadam, $27,000; Clybourn Ave., asphalt, $34,500; Ontario St. asphalt, $21,500. J. M. Patterson is Comr. Pub. Works.; John Ericson is Cy. Engr.

CENTRALIA, ILL.—Board Local Improvements has directed the Iowa Engineering Co., of Clinton, Ia., to prepare plans and specifications for 8,000 sq. yds., of brick paving, to be used soon after July 1.

MOLINE, ILL.—A contract for paving 13th Ave., from Ninth to 15th Sts., with asphalt has been awarded by Board Local Improvements to McCARTHY CONSTRUCTION CO., of Davenport, Ia., for $14,200.

DES MOINES, IA.—Bids are asked by Board Public Works until July 7 for paving West Walnut St. with sheet asphalt, about 15,530 sq. yds.; est. cost, $30,095. W. W. Wise, Chn.; John W. Budd, Cy. Engr.

OSCEOLA, IA.—The city will build this year between 20,000 and 25,000 ft. of cement sidewalk and would like to correspond with cement men. No bids will be called for. Address W. N. Temple, Cy. Clk.

HUTCHINSON, KAN.—Bids were received June 1 by Paving Committee for 31,491 sq. yds. of brick paving on Main St., Geo. R. Brindle, Kansas City, Mo., being the lowest bidder. The council, however, rejected all bids for brick and decided to have the streets paved with bitulithic. T. G. Elbury is Cy. Engr.

LAWRENCE, KAN.—Bids are asked by F. D. Brooks, Cy. Clk., until July 3 for grading, curbing and paving a portion of Elliott St., amounting to about 13,500 sq. yds. of macadam, 8 ins. deep, and 5,000 lin. ft. limestone or concrete curbing.

CHILLICOTHE, MO.—Bids are asked by Board Public Service until July 1 for about 2,000 sq. yds. brick paving and 7,000 ft. 5-in. curb. H. M. Reed, Cy. Engr.

GRAND JUNCTION, COLO.—Bids were received June 17, by Charles E. Burton, Supt. Indian School, for construction of 11,400 sq. ft. of cement sidewalk, the contract being let to WM. C. BOYER at 14 cts. per sq. ft.

SEATTLE, WASH.—Ordinances have been passed ordering the grading of various streets and laying of concrete walks. Est. cost, $114,550. R. H. Thompson, Cy. Engr.

SEATTLE, WASH.—Bids will be received by C. B. Bagley, Secy. Bd. Pub. Wks., until July 8 for the improvement of Second Ave. and other streets by paving with asphalt and constructing new curbs and sewers. Est. cost, $103,600.

Bids will be received at the same time and place for the grading of Grand Boulevard and connecting streets. Est. cost, $31,600.

SPOKANE, WASH.—Board Public Works received the following bids for paving Washington St. with vitrified brick: Jas. C. Broad, $14,999; Barber Asphalt Paving Co., $13,250; Peter Costello, $13,740; Independent Asphalt & Paving Co., $13,380.

CORONA, CAL.—The City Trustees have awarded contract to CHAS. STANBURY, of Los Angeles, for improvements on Main St., for $22,446.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

OSWEGO, N. Y.—It has been decided that the National Starch Co. will rebuild its large plant which was recently burned.

NEW YORK, N. Y.—Plans are being prepared by Ross & McNeil, Archs., 39 East 42d St., for a wagon factory for Ketterer & Co., 214 West 17th St. Brick, five stories, 50 × 95 ft. Heating boiler, gas engine, electric lighting plant, wagon lift and passenger elevator, will be required. Cost, $50,000. Previously noted.

C. T. WILLS, 156 Fifth Ave., has been awarded the general contract for erecting a factory at 247-53 West 14th St., for the American Can Co., 11 Broadway. Brick and stone, 6 stories, 75 × 200 ft.

HOBOKEN, N. J.—Hoboken Paper Mill Co. will erect a new building to conform in general to existing buildings. Brick, 4 stories, 75 × 100 ft. Heating system, shafting and belting and electric wiring.

NEWARK, N. J.—FORD K. PRUDEN, 45 Clinton St., Newark, has been awarded contract for mason work and FRED KILGNS, 13 South Sixth St., Newark, has contract for carpenter work for new factory, three stories, 50 × 100 ft., to be erected at Sherman Ave. and Stanton St., for Groebe McGovern, of Newark. E. V. Warren, Arch., 9 North Sixth St., Newark.

SELLERSVILLE, PA.—J. H. McCLAY has been awarded the contract for a three-story factory for the Armure Tapestry Co.

SHENANDOAH, PA.—The Columbia Brewing Co. has invited bids for a five-story addition to brewery.

PHILADELPHIA, PA.—WM. STEELE & SONS, 16th and Arch Sts., have been awarded contract for an addition to lace mill at 22d St. and Lehigh Ave., for Lehigh Mfg. Co. Brick, 3 stories, 75 × 440 ft.

YORK, PA.—Hamm & Leber, Archs., Weist Bldg., York, are preparing plans for an addition to factory of York Carriage Co. Brick, 4 stories, 60 × 100 ft.

PHILADELPHIA, PA.—Henry G. Dagit, Arch., 435 Chestnut St., has invited bids for alterations and additions to factory at Howard St. and Columbia Ave., for O'Neill Bros.

PITTSBURG, PA.—Ballinger & Perrot, Archs., 1200 Chestnut St., Philadelphia, awarded the contract for the erection of a chocolate factory for S. S. Marvin & Sons, on Center St. Fireproof, 6 stories, 70 × 80 ft. The basement will contain a power plant consisting of 300 HP. boilers and two direct connected engines and dynamos aggregating 200 HP.; also a 30-ton refrigerating plant, artesian well pump, house supply and vacuum pumps.

KINGSTON, PA.—L. C. Holden, Arch., 1135 Broadway, New York, desires bids on electric wiring and switchboards for new factory to be erected at Kingston, for Hess, Goldsmith & Co.

BALTIMORE, MD.—The Puritan Candy Co. has been incorporated with an authorized capital stock of $15,000 to manufacture chocolates and candies by Wm. B. Buxton, Glenwood Ave.; Geo. L. Mattingly, 3 East Lexington St.; Chas. H. Burns, Jacob C. Davis, Jr., and Geo. Gith.

STRASBURG, VA.—Strasburg Mfg. Co. has completed the erection of building, 80 × 150 ft., and is installing machinery for manufacturing hardwood flooring, trimmings. Two large d... shaving houses and lumb... be erected. About $25,0... E. P. Gebhard, Woodstock.

FARMVILLE, VA.—W... let the contract to C. W. ... of Lynchburg, Va., for th... story factory building he... $50,000.

RALEIGH, N. C.—Arthu... borough House, Raleigh, w... with firms relative to ins... plant in hotel, including ...

BRUNSWICK, GA.—Boar... ter C. Brobston, Secy.-Tre... on machinery and supplies ... factory.

FRANKFORT, KY.—Cla... W. W. Longmoor will ere... manufacture of smoking ... bacco.

ANDERSON, IND.—The A... Wire Co. is asking for bi... improvements and repairs t... this city.

VEEDERSBURG, IND.—T... tery Co., is asking for bid... of a large addition to its ...

HAZLETON, IND.—Gedd... in the market for a new boil... one recently destroyed by an ...

MONTICELLO, IND.—Loug... ing Co. has incorporated with ... pose to build and operate gra... flour mills. Joseph E. Lough...

CRAWFORDSVILLE, IND. ... erection of a two-story addi... $10,000. The company is also ... for several large machines which will be added to the equipment. The company manufactures builders' supplies.

VEEDERSBURG, IND.—The Veedersburg Pottery Co. has incorporated with $50,000 cap. stock. The company will build a plant to manufacture clay products of all kinds. R. D. Culver, Pres.

VINCENNES, IND.—The Plummer Chair Co. will soon ask for bids for construction of a new factory in this city.

MILTON, IND.—The North-American Mfg. Co. has incorporated for the purpose of establishing a manufacturing plant in Milton. Jacob M. Cripe, Pres.

DETROIT, MICH.—The Scott Mfg. Co., St. Louis, Mo., was the lowest bidder for a municipal brick plant for Detroit.

MILWAUKEE, WIS.—All contracts for building of proposed trunk factory for Abel & Bach Co. have been let. Cost, $150,000. Brick, 3 stories, 150 × 180 ft. About Jan. 1, 1906, bids will be wanted for full electrical equipment—boilers, engines, dynamos, motors, etc., about 200 HP.

SIOUX CITY, IA.—Armour & Co., Union Stock Yards, Chicago, Ill., will erect at Sioux City, a fertilizer plant to cost about $55,000.

KANSAS CITY, MO.—The American Floor-Clamp & Mfg. Co., recently incorporated with $10,000 cap. stock, will manufacture the Jeffords floor clamp, manufacture novelties, etc. L. W. Jeffords is Pres.

EAST ST. LOUIS, MO.—Armour & Co., Chicago, will erect a fertilizer plant at East St. Louis. Cost, $60,000.

KANSAS CITY, MO.—Fire destroyed the plant of the Parker-Washington Asphalt Paving Co. at 2307-17 Penn St.

LITTLE ROCK, ARK.—Leifer Mfg. Co. has been incorporated with an authorized capital stock of $50,000, to manufacture concrete blocks, cement roofing, tile and hard plaster and deal in sand. A building 64 × 160 ft. has been erected, and another building 100 × 120 ft. and sand bins capable of holding 15,000 yards of sand are to be constructed. George Leifer is Pres.

BEAUMONT, TEX.—The Ineeda Laundry Co. desires estimates on attaching motors to all its machinery and for the use of electricity for heat instead of gas. The company is now building a new plant; brick, 2 stories, 60 × 150 ft. S. G. Burnett, Secy.

NACOGDOCHES, TEX.—Cooke Bros. who operate the lumber mill at Lufkin that was recently burned, will erect a mill here. The citizens of this place have subscribed $20,000 toward the enterprise.

SAN ANTONIO, TEX.—A company is being organized by Eastern capitalists for the purpose of establishing a meat packing house, probably in San Antonio. J. Ormerod is interested.

PARIS, TEX.—The Paris Candy & Bottling Co. has been organized here with $20,000 cap. stock to erect a factory. W. M. Potts is one of the incorporators.

FORT WORTH, TEX.—Armour & Co., Chicago, will erect a fertilizer plant here to cost $50,000.

PUGET SOUND, WASH.—Bids are asked by Bureau of Yards and Docks, U. S. N., Washington, D. C., until Aug. 5 for constructing an extension to joiner shop at navy yard, Puget Sound. Mordecai T. Endicott, Ch. of Bureau.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DITCH WORK.—St. Cloud, Minn.—Contract for construction of St. Joseph Ditch has been awarded to O. F. DOYLE, St. Cloud, for $6,520.

SEA WALL.—New York, N. Y.—Brown & Fleming Contracting Co., 129 Broad St., New York, at $41,512, was low bidder for building stone sea wall at Governors Island, bid for doing which were received June 22 by Lt.-Col. W. L. Marshall, U. S. Engrs.

BOILER.—New York, N. Y.—Bids are asked by Board of Health, Thomas Darlington, Pres., until 10 a. m., July 5, for new boiler for Riverside Hospital.

BARGES.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until July 27 for furnishing 11 steel barges. (Advertised, Engineering News.)

DRAINAGE DITCH.—Boonville, Ind.—Contract for excavation of Warrick and Spencer County ditch has been let to A. R. BROWN, Washington, Ind., for $19,500.

PIER.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. Docks, until 2 p. m., July 7, for material and building new pier at foot of East 138th St.

DREDGE.—Washington, D. C.—Potomac Dredging Co. has awarded contract for building new dredge to the SPEDDEN SHIPBUILDING CO., Baltimore, Md.

DREDGING.—Seattle, Wash.—Contract for dredging Wilson Creek waterway has been let to NORTH AMERICAN DREDGING CO., San Francisco, Cal., for about $29,480.

DREDGING.—Chicago, Ill.—Bids are asked until July 25 for dredging in Chicago Harbor, Ill. Lt.-Col. Wm. H. Bixby, U. S. Engrs. (Advertised, Engineering News.)

WHARF.—New Orleans, La.—Dock Commission has awarded contract for construction of Tchoupitoulas St. wharf to W. T. CAREY & BRO., New Orleans, for about $80,000.

NATIONAL SOLDIERS' HOME, VA.—Contract for building seawall here for U. S. Government has been awarded to PEARSE & ALSOP, Newport News, Va., for about $16,000.

DREDGING.—Boston, Mass. — Bids are asked until July 22 for dredging in Weymouth Fore River, Mass. Col. W. S. Stanton, U. S. Engrs. (Advertised, Engineering News.)

WHARF REPAIRS.—Winthrop, Mass.—G. Hayes & Co., 166 Devonshire St., Boston, Mass., was low bidder for repairing wharf at this place for U. S. Government. Work will cost $3,500.

SEA WALL.—Fort Andrews, Mass.—Robt. B. Mitchell, New York, at $2,973, was low bidder for constructing a section of block concrete seawall at Fort Andrews, Peddocks Island, Mass.

MACHINERY.—Pittsburg, Pa.—Bids are asked until July 21 for furnishing and installing compressed air machinery for new Lock No. 2, Monongahela River. Major Wm. L. Sibert, U. S. Engrs.

DREDGING.—Norfolk, Va.—Bids are asked until July 20 for dredging waterway from Norfolk Harbor to Albermarle Sound. Capt. F. Eveleth Winslow, U. S. Engrs. (Advertised, Engineering News.)

PIERS.—New York, N. Y.—Maurice Featherson, Comr. Docks, has awarded contract for furnishing material and building Pier No. 8 and Pier No. 10, to BERNARD ROLF, 39 Cortlandt St., New York, for a total of $83,000.

FLOOD GATE REPAIRS.—Vincennes, Ind.—Bids are asked by John T. Scott, County Audr., until 1 p. m., July 6, for repair of levee and flood gates in Lower Shaker Prairie drainage system, requiring handling of 99,918 yds. of dirt.

CEMENT.—Little Rock, Ark.—Contract for furnishing U. S. Government with 11,000 bbls. American Portland cement for Lock No. 3 (bids received June 10), has been let to EDWIN S. HEALEY, Old Manchester Road, St. Louis, Mo., for $20,240.

EXCAVATION, ETC.—Portland, Ore.—Bids are asked until July 24 for excavation, concrete masonry work, etc., in connection with construction of portion of The Dalles-Celilo canal, Columbia River. Major W. C. Langfitt, U. S. Engrs. (Advertised, Engineering News.)

GRASS SOD.—New York, N. Y.—Bids are asked by Commissioners of Parks, John J. Pallas, Pres., until 3 p. m., July 6, for furnishing and delivering grass sod. Bids are also asked until July 6 for furnishing and delivering Hudson River road gravel on parks and parkways.

CEMENT, SAND, TILE, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until July 20 for furnishing Portland cement, LaFarge cement, marble sand, marble chips, mortar stain, metal lathing, copper wire, roofing tile, brick, yellow pine lumber and red wood.

DAM.—Iowa City, Ia.—Contract for constructing concrete dam and power house foundation has been awarded to WM. HORRIBON, Iowa City, Ia., for about $16,459. Bids were received June 13 by Regents of the State University of Iowa, and will be given under Contract Prices.

DIKE.—Los Angeles, Cal.—Plans and specifications for the construction of about 12 miles of dike for the Yuma Irrigation Project may be seen at the office of Engineering News, 220 Broadway, New York. Bids are asked by U. S. Reclamation Service until Aug. 17, as is advertised in the Engineering News.

RECLAIMING SWAMP LAND.—Florida.—We are informed that steps are being taken to prepare plans for reclaiming the Everglades and growing sugar cane thereon. Governor N. B. Broward, Tallahassee, is taking up the matter, and would no doubt be glad to receive propositions from engineers and contractors.

DREDGING, JETTIES.—Seattle, Wash.—Nome Improvement Co. has awarded contract to CAPT. E. W. JOHNSTON, Seattle, Wash., to dredge a channel 2,000 ft. long and to build rock jetties 750 ft. long at the mouth of Snake River at Nome, Alaska. The contracts call for the expenditure in 18 months of $250,000.

GRADING.—Washington, D. C.—Following bids were received June 15 by Capt. A. W. Butt, Q. M., U. S. A., for grading in Arlington National Cemetery, requiring about 45,000 cu. yds. earth excavation: R. W. Darby, Washington, D. C., $13,275; L. R. Colbert, Massapanax, Va., $11,137; Thomas H. Lyons, Brookland, D. C., $22,275.

TUNNELS.—Reno, Nev.—The Southern Pacific Ry., W. Hood, Ch. Engr., San Francisco, Cal., is stated to have awarded contract for construction of a series of tunnels through the Sierra Nevada Mountains to ERICKSON & CO., Los Angeles and San Francisco, Cal. The work will involve an expenditure of $25,000,000 it is stated.

DRAINAGE WORK.—Genesco, Ill.—We are informed that contracts for drainage work for the Green River Special Drainage District have been awarded as follows: 3,300,000 cu. yds., G. A. McWILLIAMS, Walnut, Ill.; 1,200,000 cu. yds., Central States Drainage Co., Marion, O.; the cost of the work will average approximately 7.8 cts. per yd. Frank S. Haynes is Comr.

TELEPHONE SYSTEM.—Quebec, Can.—The Resident Engineer of the New Canadian Co., Ltd. (A. Q. & W. Ry.), Paspebiac, Que., Can., is arranging for a temporary system of telephonic communication over some 15 miles of railway under construction, and also for a permanent system over 100 miles of open line. Data, prices, etc., are wanted at once regarding such systems.

FREIGHT ELEVATOR.—Charleston, S. C.—Following bids were received June 24 by Bureau Yards and Docks for electric freight elevator in Building No. 19, Navy Yard, Charleston. The Albro-Clem Elevator Co., Philadelphia, Pa., $2,755; The Brodesser Elevator Mfg. Co., Milwaukee, Wis., $2,490; Kaestner & Co., Chicago, Ill., $2,512; Otis Elevator Co., New York, $2,975.

TIES, RAILS, SPIKES, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until July 18 for furnishing a quantity of naval supplies as follows: Schedule 19, creosoted ties, rails, spikes, flat and dump cars; schedule 20, boat knees, oak, mahogany, ash, poplar, pine, cedar, acids; schedule 21, forced draft blowers. H. T. B. Harris, Paym. Gen. U. S. N.

IRON, LUMBER, VALVES, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until July 11, for furnishing naval supplies, among which are the following: Schedule 13, structural iron work; schedule 14, lumber, lime, turret machines, etc.; schedule 15, rivet and bar steel; schedule 16, brass and iron pipes, gate valves, etc. H. T. B. Harris, Paym. Gen., U. S. N.

LAMPS, WIRE, MOTORS, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until July 18 for furnishing naval supplies, among which are the following: Schedule 22, incandescent lamps, wire, cable, Portland cement, ties, pipes and specials, hydrants, etc.; schedule 24, steel rivets, exhaust system, bar steel, angles, plates, etc.; schedule 25, motors, motor drive, oak timber, butts, pipe fittings, etc. H. T. B. Harris, Paym. Gen., U. S. N.

STEEL TRESTLES, ETC.—Louisville, Ky.—Following bids were received June 15 by U. S. Engineer for steel trestles, etc., for Boule Dam at Falls of Ohio River: Chas. Hegewald Co., New Albany, Ind., $26,995; Penn Bridge Co., Beaver Falls, Pa., $24,444; B. Wallis & Co., Baltimore, Md., $27,859; Griffith Iron Works Co., St. Louis, Mo., $23,126; Milwaukee Bridge Co., Milwaukee, Wis., $21,268; Lawrence D. Weaning, Cleveland, O., $24,882; Brackett Bridge Co., Cincinnati, O., $19,664; North Penn Iron Co., Philadelphia, Pa., $33,646; The Interstate Engineering Co., Cleveland, O., $24,081; Grainger & Foundry & Machine Co., New York, $27,634; Champion Iron Co., Kenton, O., $18,965. Itemized bids will be given under Contract Prices.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

BRIDGE APPROACHES.—New York, N. Y.—Following bids were received June 20 by the President of Bronx Borough for constructing approaches to bridges over N. Y. C. & H. R. R. R. at Depot Pl. and West 177th St.: (1) Troy Public Works Co., Utica, N. Y.; (2) Jno. J. Hopper, 215 West 125th St., New York; (3) Jno. C. Rodgers, 1909 Amsterdam Ave., New York; (4) Kelly & Kelly, 45 East 42d St., New York:

Bids received at New York, N. Y., June 20, 1905, by the President of Bronx Borough, for Constructing Approaches to Bridges Over N. Y. C. & H. R. R. R. at Depot Place and W. 177th St.

Items.	Quantities.	(1)	(2)	(3)	(4)
		$1,000.00	$1,500.00	$1,000.00	
Removal and disposal of old bulkheads, piles, etc.		.40	1.50	.50	.60
Excavation	6,200 cu. yds.	.25	.35	.30	.25
Bearing piles	3,000 lin. ft.	.50	.35	.30	.37
Filling and back filling	30,500 cu. yds.	1.50	1.00	1.00	.75
Rock filling	1,200 "	70,00	200.00	150.00	150.00
Standard receiving basins	2	70.00	75.00	100.00	50.00
Inlets	3	1.00	1.20	2.00	.80
Vitrified 12-in. stoneware pipe	130 lin. ft.	1.00	1.00	1.00	.50
Vitrified 8-in. stoneware pipe	100 "	3.00	2.50	2.50	1.60
Dry rubble masonry	1,950 cu. yds.	9.00	10.00	10.00	8.00
Concrete, Class A	400 "	5.60	7.00	6.00	4.00
Concrete, Class B	9,000 "	20.00	25.00	20.00	20.00
Concrete, Class C	10 "	1.50	2.00	3.00	1.60
Portland cement	100 bbls.	1.00	.80	1.00	.50
Waterproofing	110 sq. yds.	50.00	45.00	40.00	35.00
Lumber	40,000 ft. B. M.	.80	.80	.90	1.70
New curbstone	3,400 lin. ft.	.25	.30	.25	.25
New flagging	16,800 sq. ft.	.60	.70	.60	.60
New Bridgestone	1,000 "	1.00	1.50	2.00	3.00
Bluestone steps and landings	90 cu. ft.	2.30	2.75	2.40	1.80
Granite block pavement	4,250 sq. yds.	2.50	2.50	2.00	3.00
Asphalt block pavement	500 "	1.00	1.50	1.35	1.17
Macadam pavement	4,000 sq. yds.	.04½	.05	.04	.05½
Iron and steel	278,000 lbs.	.03	.03	.03	.06
Reinforcing bars	19,000 "	.05	.05	.10	.05
Woven wire fabric	3,800 sq. ft.	2.00	3.25	2.00	3.30
Ornamental railing	2,020 lin. ft.	2.00	1.25	1.00	1.40
Gas-pipe railing	400 "	1.00	1.50	2.50	1.00
15-in. vitrified stoneware pipe	150 "				
Totals		$125,221	$148,460	$123,052	$109,156

*PATHFINDER DAM.—Denver, Colo.—Following bids were received June 15 by U. S. Reclamation Service for construction of Pathfinder Dam, North Platte Project, Wyoming: (1) Keltie Stone Co., Barber Bldg., Joliet, Ill.; (2) Geddes & Seerie Stone Co., Denver, Colo.; (3) Kilpatrick Bros. & Collins Contracting Co., Beatrice, Neb.; (4) Wyttebach & Russell, Sturgis, S. Dak.; (5) Bradbury & O'Gara, Denver, Colo.:

Bids received at Denver, Colo., June 15, 1905, by U. S. Reclamation Service, for Construction of Pathfinder Dam, North Platte Project, Wyoming.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)
Masonry:						
Above el'evation 5660	50,000 cu. yds.	$8.40	$7.60	$7.95	$5.78	$4.30
Below elevation 5660	3,000 "	8.65	9.95	12.00	10.40	6.48
Excavation, Class 1	2,500 "	1.21	2.50	3.00	1.00	4.00
" " 2	500 "	3.00	6.70	10.00	3.00	4.60
" " 3	2,000 "	2.50	4.30	3.00	1.50	1.15
Concrete	1,000 "	4.75	7.60	7.50	6.50	5.90
Hauling cement	40,000 bbls.	3.00	3.23	3.25	3.00	2.75
Totals		$580,225	$564,850	$580,500	$453,700	$364,940

MACADAM ROAD.—Salem, N. H.—Following bids were received June 22 by A. W. Dean, State Engr., Concord, N. H., for constructing a 13,000 ft. long by 12 ft. wide macadam road in Salem, N. H.; the thickness of the wearing coat is to be 6 ins. and a natural foundation is to be used: Lane Construction Co., Meriden, Conn., 59¾ cts. per sq. yd.; B. D. Pierce, Jr., Bridgeport, Conn., 63 cts.

MAIN CARRIER SEWER.—Waterbury, Conn.—Following bids were received June 20 for construction of Section 1 of main carrier sewer: R. A. Cairns, Cv. Engr.: (1) McGOVERN CONSTRUCTION CO., Trenton, N. J. (awarded contract); (2) Crouse Construction Co., Perth Amboy, N. J.; (3) John W. Gaffney, Waterbury, Conn.; (4) Bell Engineering & Construction Co., New York; (5) Frederick E. Shaw, Providence, R. I.; (6) Fred. T. Ley Co., Springfield, Mass.; (7) The Neff Co., New York:

BIDS RECEIVED AT WATERBURY, CONN., JUNE 20, 1905, FOR CONSTRUCTION OF SECTION 1 OF MAIN CARRIER SEWER.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Earth excavation, Sec. A, open trench	2,905 lin. ft.	$3.75	$4.65	$8.50	$6.55	$11.25	$10.95	$16.50
" " B, tunnel	778 "	8.00	4.40	19.50	15.10	25.00	21.00	16.50
" " C, open trench	1,510 "	4.00	4.71	8.00	9.73	15.00	15.35	15.00
" " D, tunnel	17 "	6.00	20.50	14.00	20.00	40.00	20.00	30.00
" " E, open trench	100 "	4.00	8.29	9.00	7.21	11.00	11.50	19.00
Rock excavation, Class A, "	25 cu. yds.	4.00	3.50	3.50	3.50	4.50	3.00	4.00
" B, "	25 "	5.00	5.50	10.00	4.50	12.00	4.50	8.00
Brick masonry (except in tunnel arch)	60 "	15.00	11.34	18.00	11.80	17.00	15.00	19.00
Masonry, main carrier, Sec. A, open trench	2,905 lin. ft.	5.00	3.54	5.50	5.18	3.00	3.50	3.25
" " " B, tunnel	778 "	10.00	6.48	7.00	10.42	10.00	7.50	5.75
" " " C, open trench	1,510 "	6.00	11.29	10.80	17.85	7.00	9.75	8.00
" " " D, tunnel	17 "	35.00	8.00	22.50	11.50	20.00	30.00	19.00
" " " E, open trench	100 "	6.00	5.24	6.00	5.70	3.25	3.85	3.50
Concrete masonry (outside limits of stand. secs.), Class B	100 cu. yds.	8.00	7.25	8.00	8.40	6.00	8.50	7.50
" " " " " C	100 "	7.00	7.12	6.00	8.00	5.50	7.75	6.75
Slope paving	1,500 sq. yds.	2.00	1.50	1.50	1.50	2.25	2.25	2.00
Inlet and connections	Lump sum	500.00	190.00	150.00	192.00	200.00	125.00	210.00
Trunk sewer connections	"	2,000.00	5,643.00	6,950.00	6,293.00	3,500.00	5,250.00	5,500.00
Timber bulkhead	"	100.00	20.00	200.00	25.00	150.00	20.00	120.00
Totals		$64,445	$68,702	$104,163	$108,678	$112,974	$115,919	$124,192

*DAM.—Iowa City, Ia.—Bids were received June 13 by the Board of Regents of the University of Iowa for constructing concrete dam across the Iowa River, the contract for dam and power house foundation, excepting cast-iron gates, being awarded to WM. HORRIBON, Iowa City, for $16,459. The bids received for the work were as follows: (1) Savage Construction Co., Chicago, Ill.; (2) Carroll Contracting Co., St. Louis, Mo.; (3) W. D. Lovell, Minneapolis, Minn.; (4) Blake Bros., Madison, Wis.; (5) Wm. Horribon, Iowa City; (6) Schillinger Bros. Co., Chicago, Ill.; (7) Bartlett & Kling, Cedar Rapids, Ia.:

Bids received at Iowa City, Ia., June 13, 1905, by the Board of Regents of the University of Iowa, for Constructing Concrete Dam Across the Iowa River.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Earth excavation	3,100 cu. yds.	$2.50	$2.00	$2.38	.95	.90	.30	.86
Rock excavation	100 "	4.00	4.00	5.00	10.00	2.00	2.10	2.30
Borrowed earth	1,000 "	.64	.40	.79	.60	.45	.40	.75
Bearing piles	360 lin. ft.	.48	.75	.70	.75	.35	.30	.35
Sheet piling	12,840 ft. B. M.	75.00	40.00	75.00	90.00	60.00	.23	50.00
Concrete, below el. 39	1,209 cu. yds.	9 65	8.80	4.83	13.50	4.85	50.00	7.00
Concrete, above el. 39	1,323 "	8.82	9.50	4.88	12.25	5.00	7.00	7.55
Steel	15,000 lbs.	.05	.08	.04	.03	.03	4.90	7.55
Cast-iron gates		7,050.00	3,600.00	7,400.00	7,500.00	6,900.00	.03	.04
Totals		$39,999	$34,866	$28,906	$45,341	$23,359	5 750.00	5.750.00
							$22,868	$28,849

*SEA WALL.—New York, N. Y.—Following bids were received June 22 by Lt.-Col. W. L. Marshall, U. S. Engrs., for building 2,050 ft. of stone sea wall at Governor's Island: (1) being bid per foot and (2) total bid: Northeastern Construction Co., Fuller Bldg., New York, (1) $28.39, (2)$58,199; Brown & Fleming Contracting Co., 129 Broad St., New York, (1) $20.25, (2) $41,512; Humphrey Toomey, Guilford, Conn., (1) $20.70, (2) $42,435; James C. McGuire & Co., 26 Cortlandt St., New York, (1) $22.95, (2) $47,047; Cooper & Evans, 220 Broadway, New York, (1) $29.76, (2) $61,008.

*DREDGING.—Norfolk, Va.—Following bids were received June 19 by Capt. F. Eveleth Winslow, U. S. Engrs., for approximately 20,000 cu. yds. dredging in Perquimas River, North Carolina: L. W. Lewis, Berkley, Va., 47½ cts.; Chas. P. Grim, Philadelphia, Pa., 77 cts.

*DREDGING.—Wilmington, Del.—Bids were received June 20 at U. S. Engineer's office for dredging in Raccoon Creek, N. J., as follows: Patrick Neary, Wilmington, Del., 15 cts.; River and Harbor Improvement Co., Philadelphia, Pa., 17 cts.; Edward F. Fowler Co., Philadelphia, Pa., 9½ cts.; all bids for place measurement.

*DREDGING.—Detroit, Mich.—Following bids were received June 20 at U. S. Engineer's office for dredging in St. Mary's River: (1) dredging at Bayfield Shoal, 83,000 cu. yds. full rate, 14,000 cu. yds. half rate, (2) entrance angle to Middle Neebish, soft material, 294,000 cu. yds. full rate, 21,000 cu. yds. half rate, (3) entrance angle to Middle Neebish, hard material, 98,000 cu yds. full rate, 7,000 cu. yds. half rate: H. W. Hubbell & Co., Saginaw, Mich., (1) 49 cts.; Hickler Brothers, Sault Ste. Marie, Mich., (1) 52 cts., (2) 14 cts., (3) 67 cts.; Great Lakes Dredge & Dock Co., Chicago, Ill., (2) 13.9 cts., (3) 70 cts.; The Lake Erie Dredging Co., Buffalo, N. Y., (1) 65 cts., (2) 18 cts., (3) 60 cts.; Lake Superior Contracting & Dredging Co., Duluth, Minn., (1) 78 cts., (2) 65.5 cts., (3) 65 cts.; Samuel O. Dixon, Milwaukee, Wis., (1) 78 cts., (2) 17 cts., (3) 68 cts.

*DREDGING.—Cleveland, O.—Bids, as follows, were received June 19 by Lt.-Col. Dan C. Kingman, U. S. Engrs., for improving Cleveland Harbor by dredging: (1) being bid

per cu. yd. for dredging, (2) board of inspectors per day, per man, (3) quantity covered by the proposal: The Standard Contracting Co., Cleveland, O., (1) 13 cts., (2) 70 cts., (3) 500 cu. yds. (informal and incomplete); Great Lakes Dredging & Dock Co., Chicago, Ill., (1) 11 9 cts., (2) 60 cts., (3) all the work; G. H. Breymann & Bros., Toledo, O., (1) 13 cts., (2) 60 cts., (3) not stated; The Lake Erie Dredging Co., Buffalo, N. Y., (1) 13.9 cts., (2) 75 cts., (3) 600,000 cu. yds.; The L. P. & J. A. Smith Co., Cleveland, O., (1) 11.5 cts., (2) 75 cts., (3) 1,250,000 cu. yds. (recommended for acceptance). Approximately $150,000 is available for the contract.

*STEEL TRESTLES.—Louisville, Ky.—Following bids were received June 15 by U. S. Engineer for steel trestles, etc., for Boulé Dam at Falls of Ohio River; (1) Chas. Hegewald Co., New Albany, Ind.; (2) Penn Bridge Co., Beaver Falls, Pa.; (3) B. Wallis & Co., Baltimore, Md.; (4) Griffith Iron Works Co., St. Louis, Mo.; (5) Milwaukee Bridge Co., Milwaukee, Wis.; (6) Lawrence D. Weaning, Cleveland, O.; (7) Brackett Bridge Co., Cincinnati, O.; (8) North Penn Iron Co., Philadelphia, Pa.; (9) Interstate Engineering Co., Cleveland, O.; (10) Grainger & Co., Louisville, Ky.; (11) New Jersey Foundry & Machine Co., New York; (12) Champion Iron Co., Kenton, O.:

RAILROAD.—Cuba.—It is announced that a company with a capital stock of $2,500,000 has been formed to build a railroad from Nuridas to Caibarien. The Cuban Government has already granted a right of way. The road will be about 150 miles long and operations on it are to be commenced shortly. Charles De Norman, New York, is Pres.; James E. White, Kalamazoo, Mich., is Secy., and Frank H. Carr, Grand Rapids, Mich., is Gen. Mgr.

WHARF.—Hawaii.—Following bids were received June 15 by Supervising Architect at Washington, D. C., for construction of a wharf at U. S. Quarantine Station, Honolulu: Hawaiian Dredging Co., Ltd., Honolulu, $62,800; time, 220 days. W. H. Hoogs, Honolulu, $63,433; 222 days. John Onderkirk, Honolulu, $62,500; 8 months. F. W. Beasley, Honolulu, $67,409; 8½ months. Langford & Walker, Portland, Ore., $85,900; 9 months. Cotton Bros. Co., Oakland, Cal., $59,855; 9 months. Healy-Tibbits Construction Co., San Francisco, $63,300; 8 months. City Construction Co., San Francisco, $69,500; 6 months. E. P. Chapin, Honolulu, $74,052; 8 months. L. M. Whitehouse, Honolulu, $69,-995; 20 days. Lord & Belsen, Honolulu, $64,-499; 240 days. San Francisco Bridge Co., San Francisco, $66,250; 9 months.

AMALGAMATOR.—U. S. Civil Service Commission, Washington, D. C., will hold an examination July 20 to secure eligibles to fill a vacancy in the position of amalgamator and crushing-mill man in the U. S. Mint at Denver, Colo., at $4 per day.

ENGINEER INSPECTOR.—Municipal Civil Service Commission of New York City will hold an examination at 10 a. m., July 11, for the position of engineer inspector at $1,200 per year. Applications will be received by Henry Berlinger, Secy., 61 Elm St., New York, until 4 p. m., July 5.

TRACK FOREMEN.—The Isthmian Canal Commission is looking for Track Foremen and Section Bosses to work on Panama Railroad, at salaries ranging from $1,000 to $1,200 per year, with opportunities for increase, including transportation from New York to Panama. No examination required. Application should be made to the Chairman of the Isthmian Canal Commission, Washington, D. C.

DRAFTSMAN.—U. S. Civil Service Commission, Washington, D. C., will hold an examination, July 19-20, to secure eligibles from which to make certification to fill a vacancy in the position of draftsman, at $4

the Buda Foundry & M... Co., in charge of the Sales Department.

BLAIR & CO., of A... Ga., announces that E. E. Linthicum, ... Alabama, who has for the past five ye... been manager for the U. S. Cast Iron P... at Anniston, Ala., has tendered his ... resignation to take effect as soon as his su... can be chosen. Mr. Linthicum leaves t... S. Company to accept the management ... new company that is controlled by ... Company, of Atlanta. Among the Atlanta men ... are E. L. Douglas, John ... Logan and Jas. W. Blair.

THE TWIN CITY RA... TRANSIT CO., Minneapolis, will install ... its power house at the lower dam, St A... Falls, a vertical cross compound R... Corliss condending engine, for dir... connection to a 3,500-KW. 3-phase alte... current generator. This company ... previously installed three Allis-Chalmers ... engines of the same size and type as ... now ordered, each having a normal ca... of 5,000 HP. The four engines are, ... capable of developing an aggregate ... HP.

J. H. WILLIAMS & C... Brooklyn, N. Y., advises that in order to ... a more prompt distribution of its goods ... be in closer touch with its customers ... throughout the middle West, it has ope... branch store at No. 18 So. Clinton ... Chicago. The

BIDS RECEIVED AT LOUISVILLE, KY., JUNE 15, 1905, BY U. S. ENGINEER, FOR STEEL TRESTLES, ETC., FOR BOULÉ DAM AT FALLS OF OHIO RIVER.

Items.	Est. Weight, lbs.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
240 steel trestles with hinge blocks and chain connections attached	383,040	.0535	.0525	.06	.049	.0450	.05	.0416	.0725	.049	.052		
240 wrought-iron deck connecting frames	23 280	.1074	.057	.08	.049	.0550	.12	.0342	.0750	.11	.051		
240 up-stream cast-iron trestle boxes	21,600	.0322	.039	.03	.049	.0350	.04	.041	.0650	.042	.03		
240 down-stream cast-iron trestle boxes	23 520	.0322	.039	.03	.049	.0350	.041	.041	.0650	.042	.03		
960 1⅛-in. wrought-iron hold-down bolts and nuts	8,880	.04	.045	.06	.0350	.04	.048	.0380	.046	.0365	.05		
960 washers for 1⅛-in. bolts	2 08	.0386	.033	.05	.0350	.04	.0375	.02	.038	.0235	.04		
240 1¾-in. wrought iron up-stream trestle box pins	2,340	.0483	.045	.10	.0350	.04	.05	.03	.0425	.0265	.05		
240 1¾-in. wrought-iron down-stream trestle box pins and nuts	3,000	.0483	.045	.10	.0350	.04	.0475	.03	.0425	.0265	.05		
480 ⅞-in. wrought-iron deck frame bolts and nuts	720	.0502	.045	.06	.0350	.0350	.045	.03	.036	.0265	.06		
47 angle bars, 20 ft. x 6 ins. x 6 ins. x ½ in., 19.6 lbs. per ft.	18 424	.0281	.03	.03	.0250	.03	.0275	.0235	.0325	.024	.03½		
2 9-in. I beams, 10 ft. 6 ins. each, 21 lbs. per ft.	441	.0281	.03	.03	.0250	.03	.03	.0215	.0325	.026	.01½		
Totals		$26,995	$24,444	$27,889	$23,126	$21.268	$24,882	$19,665	$33,646	$24,081	$23,815	$27,934	$18,86

*OUTLET AND REGULATING WORKS.—Hazen, Nev.—Following bids were received June 15 by the U. S. Reclamation Service, F. H. Newell, Ch. Engr., L. H. Taylor, Supervising Engr., for construction of Lake Tahoe outlet and regulating works, Truckee-Carson Project, Nevada; (1) Edward Mailey, Rialto Bldg., San Francisco, Cal.; (2) Burrell Construction Co., Oakland, Cal.; (3) Cotton Bros. & Co., Oakland, Cal.; (4) E. B. & A. L. Stone Co., Oakland, Cal.; (5) William Degen, Fresno, Cal., bid on entire schedule; (6) William Degen, bid on separate items; (7) City Street Improvement Co., 512 Mills Bldg., San Francisco, Cal.:

PUBLIC WORKS IMPROVEMENTS.—Philippines.—The Government of the Philippine Islands has authorized the following improvements in public works in the Philippine Islands:

Office of Public Works.—Improvement of new harbor of Manila and Pasig River, 2,246,000 Pesos; completing improvements, Port Ceba, 1,080,000 Pesos; completing improvements, Port of Iloila, 486,000 Pesos; improvement Pasig River front, 60,000 Pesos.

Bureau of Engineering.—Bridges at Parañaque, Province of Rizal, Indang-Selang Road, Vavite, 23,600 Pesos.

per day, in the office of the Surveyor-General, Phoenix, Ariz., and vacancies as they may occur in any branch of the service requiring similar qualifications.

INSPECTOR OF CONSTRUCTION.—U. S. Civil Service Commission, Washington, D. C., will hold an examination, July 26, to secure eligibles from which to make certification to fill a vacancy in the position of inspector and assistant superintendent of construction, in the Quartermaster's Department at Large, Portland, Me., at $900 per annum, and vacancies as they may occur in any branch of the service requiring similar qualifications.

Bids received at Hazen, Nev., June 15, 1905, by the U. S. Reclamation Service, F. H. Newell, Chief Engr., L. H. Taylor, Supervising Engr., for Construction of Lake Tahoe Outlet and Regulating Works, Truckee-Carson Project, Nevada.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Excavation, Class 1	90,000 cu. yds.	.25	.17.9	.23½	.35	.40	.45	.79
" " 2	1,000 "	.50	.49	.90	.75	.80	.55	.85
" " 3	100 "	1.00	1.50	.50	1.00	.70	.75	1.00
" " 4	100 "	1.50	1.90	1.00	1.25	.95	1.00	1.00
Overhaul	1,000 "	.04	.02½	.01½	.02	.01½	.01½	.05
Concrete	500 "	10.00	14.90	10.00	12.00	11.00	14.00	8.10
Paving	1,000 sq. yds.	1.00	1.90	1.00	1.50	2.50	4.00	2.75
Flashboards, with hooks, 3 ins. x 12 ins. x 5 ft. 4 ins.	160	1.00	1.25	.50	1.00	1.30	2.50	1.30
" without hooks, 2 ins. x 8 ins. x 5 ft. 4 ins.	40	.25	1.00	.25	.50	.40	1.00	.90
Foot planks, 3 ins. x 12 ins. x 14 ft.	10	1.00	1.50	.80	1.75	2.50	5.00	2.50
Cast iron	8,000 lbs.	.07	.08	.05	.06	.08	.08	.10
Steel in place in concrete	1,000 "	.07	.16	.10	.06	.06	.06	.10
Puddling	100 cu. yds.	1.00	1.90	.65	1.50	.40	.40	.20
Dredging in lake	5,000 "	.40	1.00	1.20	2.00	1.20	4.50	1.97
Totals		$32,200	$32,560	$34,878	$50,882	$51,669	$75,970	$90,039

*JETTY WORK.—New Orleans, La.—Following bids were received June 15 by Capt. J. F. McIndoe, U. S. Engrs., for jetty work at Sabine Pass, Tex., the bids being per ton of 2,000 lbs. riprap stone in place, quantity undetermined: Chas. Clarke & Co., Galveston, Tex., $2.29 (recommended for acceptance); J. A. Bee, Lake Charles, La., $2.95; St. Mary Dredging & Improvement Co., Ltd., Berwick, La., $4.25; McGee & Co., Kansas City, Mo., $2.80.

*DREDGING.—Baltimore, Md.—Following bids were received June 20 at U. S. Engineer's office for 79,000 cu. yds. dredging in Susquehanna River, Md.: Sanford & Brooks Co., Baltimore, Md., 11 9-10 cts.; Md. Dredging & Contracting Co., Baltimore, Md., 11½ cts.; John L. Grim, Philadelphia, Pa., 12⅞ cts.

*DREDGING.—Wilmington, Del.—Following bids were received June 24 at U. S. Engineer's office for dredging harbor at Wilmington: Wilmington Dredging Co., Wilmington, 13 3 cts. per cu. yd., begin work in 10 days and complete in six months; Bowers Hydraulic Dredging Co., Camden, N. J., 11 cts. per cu. yd., begin work in 15 days and complete in eleven months.

*DREDGING.—Boston, Mass.—Following bids were received June 26, by Col. W. S. Stanton, U. S. Engrs., for dredging in Mystic River: (1) being bid for dredging, scow measurement, and (2) bid for removing boulders of three tons or more each: J. S. Packard Dredging Co., Providence, R. I., (1) per cu. yd., $0.279; (2) cu. yd., $10. Eastern Dredging Co., Boston, Mass., (1) cu. yd. $0.285; (2) cu. yd., $5.

U. S. POSSESSIONS AND CUBA.

CABLEWAYS.—Cuba.—Contract for constructing cableways at the Naval Station, Guantanamo, Cuba, has been awarded to the LAMBERT HOISTING ENGINE CO., Newark, N. J.

RESERVOIRS AND WATER SYSTEM.—Cuba.—Following bids were received June 24 by Bureau Yards and Docks, Washington, D. C., for reservoir and water system for naval station, Guantanamo, Cuba: Snare & Triest Co., 143 Liberty St., New York, $67,-757; Michael J. Daly, 350 Fulton St., Brooklyn, N. Y., $72,300.

Bureau of Coast Guard and Transportation.—Light House Service.—Continuing construction light stations at Capitancillo Island, Bojo Apo Islet, Bagocoy Point, Manigum Island, Cape Bolinox and other stations, 230,000 Pesos; general improvements Engineer Island, including artesian well, hoisting machinery, tramways, tracks, cars and wharf for Coast Guard cutters, power house, marine railway and other work thereto, 45,-000 Pesos.

Bureau Prisons.—Improvement of Bilibib Prison, 100,000 Pesos; Bengnet Improvements, Roads, etc., 425,000 Pesos.

Quarantine Service.—Quarantine Station at Ceba, 18,723 Pesos.

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CIVIL SERVICE EXAMINATIONS

CABLE FOREMAN.—U. S. Civil Service Commission, Washington, D. C., will hold an examination Aug. 2 to fill vacancies in the position of assistant cable foreman and cable foreman in the Signal Service, at salaries from $55 to $90 per month.

INDUSTRIAL NOTES.

THE C. H. WHEELER CONDENSER & PUMP CO., of Philadelphia, desires to announce the opening of a branch office, 184 Washington St., Chicago, in charge of C. A. Street, Manager.

BURKANS & BLACK CO., Wholesale Hardware, Syracuse, N. Y., informs us that it is reorganizing its catalogue library, and wish to secure the latest catalogues, especially of cement and tool makers.

THE INTERSTATE ENGINEERING CO., Bedford, O., has opened a Chicago office at 706 Fisher Bldg., in charge of Mr. Edmund G. Fisher. Mr. Fisher was formerly connected with the American Steel & Wire Co.

THE CONTRACTORS' SUPPLY & EQUIPMENT CO., main office in Chicago, has opened a branch in Chattanooga, Tenn. (Chamberlain Bldg.), and wishes this office supplied with catalogues, trade prices and discounts.

THE THOS. F. CUSHING CO., Flatiron Bldg., New York, has been organized by Thos. F. Cushing, formerly with the E. F. Keating Co. The new company will handle every description of material for steam, gas and water engineering.

THE CENTRAL STATES BRIDGE CO., of Indianapolis, Ind., is the new name of the New Castle Bridge Co. Since the removal from New Castle, Ind., to the new works and offices at Indianapolis, the old name has caused considerable confusion, and the change in name has been authorized by the courts.

THE CRANE CO., Chicago, announces that on or about June 24, it will move its general offices and sales departments to No. 519 South Canal St., near the Judd St. plant. The present location of the general offices, 10 North Jefferson St., has been used by it since 1864, and a branch of the city sales department will be continued at the old address.

THE KALAMAZOO RAILWAY SUPPLY CO., Kalamazoo, Mich., has recently added to its force of traveling salesmen, Mr. John McKinnon, of Chicago, who has been a manufacturer and seller of railway supplies for 20 years. Mr. McKinnon was for many years manager of the Morden Frog & Crossing Works, and for the last eight years with

company will show a complete stock of its drop-forged wrenches, Vulcan chain pipe wrenches, Vulcan chain pipe vises, hitch dogs, eye-bolts, and all the other drop-forged specialties shown in the catalogue, so that immediate shipments can be made.

THE CYCLONE DRILLING MACHINE CO., of Orrville, O., has just completed the largest months' business in the history of the company; the sales of their prospecting drills and blast hole drills, Placer prospecting drills, and "Economy" blast hole loaders, making shipments to British Columbia, Mexico, Canada and Alaska. Since introducing the "Economy" blast hole loaders among the railroad contractors the sale of them has increased rapidly, and many contractors have placed orders for a number of these loaders to supply their different camps.

For other Proposal Advertisements see pages 35, 36, 37, 38, 39, 10, 11 of Advertisements and Construction News page 250.

BRIDGE PIERS AND ABUTMENTS

City of Providence,
Office of the Commissioner of
Public Works, City Hall,
Providence, R. I., June 20, 1905.

Sealed proposals, addressed to the Commissioner of Public Works, will be received at this office until 11 o'clock a. m., Wednesday, July 12, 1905, for Excavation, Changing and Constructing Abutments and Constructing New Piers in the Providence River at Point Street Bridge.

Plans and specifications may be seen at the office of the City Engineer, where blank forms of contract, proposal and bonds may be obtained.

Each proposal must be accompanied by a certified check for two thousand ($2,000) dollars.

The right to reject any or all bids is reserved.

WALTER F. SLADE,
26-2t Commissioner of Public Works.

COUNTY BRIDGES.

County Controller's Office,
Reading, Pa., June 27th, 1905.

Sealed proposals will be received at the office up to 10 a. m., Friday, July 7th, 1905, for building the following bridge over the Moselem Creek at Rothermel's Mill, known as the "Moselem Springs Bridge," in Richmond Township. For a Steel Truss superstructure and a plank flooring, and Masonry work as per plans and specifications on file in the County Commissioners' Office, Reading, Pa. Ninety days from the approval of the contract will be allowed for the completion of the bridge. All bids must be based on this provision as to time. All bids must be accompanied with certified checks equal to 10 per cent. of the aggregate bid. The right is reserved to waive all defects and to reject any or all bids or parts of bids.

Plans and specifications may be seen at the office of Engineering News, 220 Broadway, New York.

HORACE F. LIVINGOOD,
26-1t County Controller.

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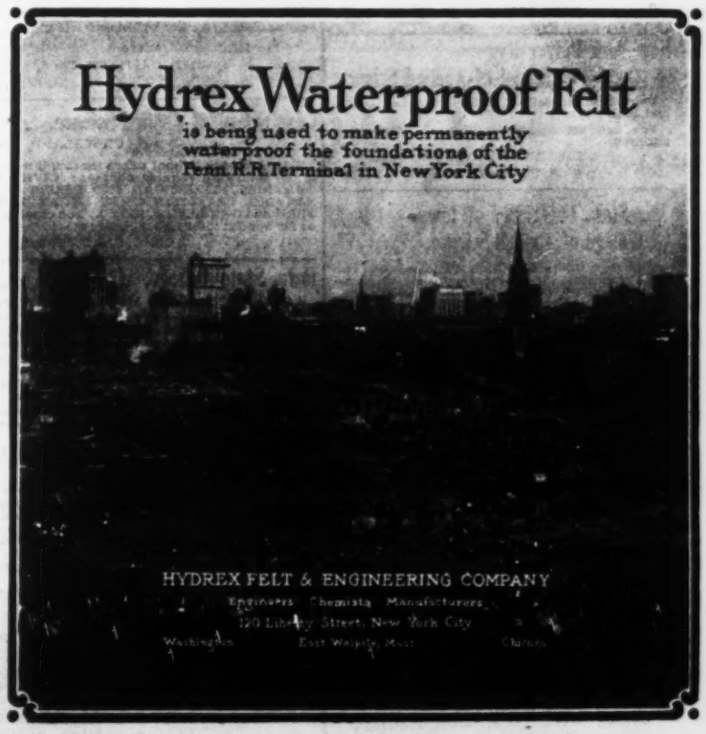
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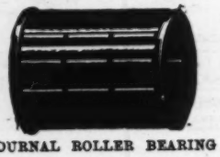
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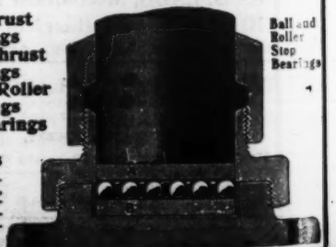
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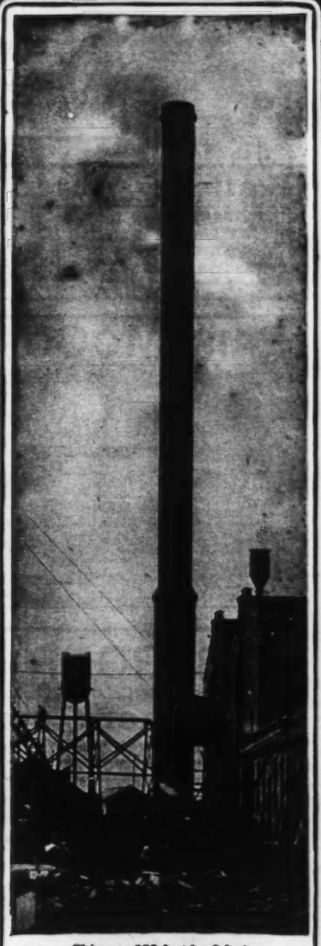

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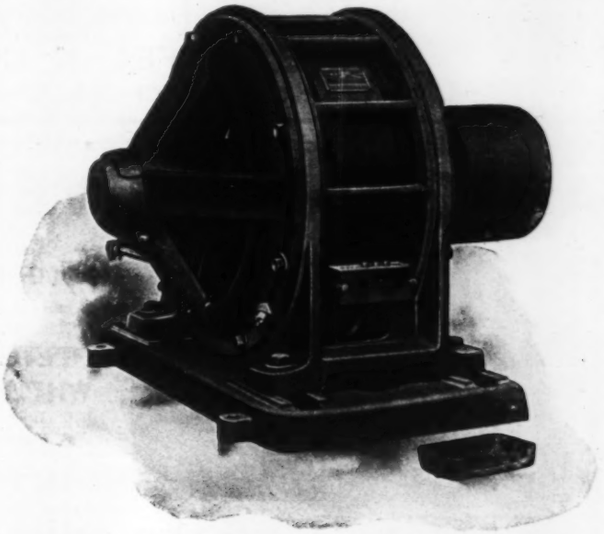

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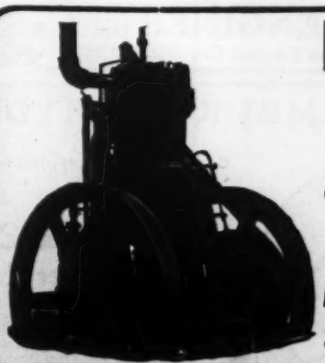

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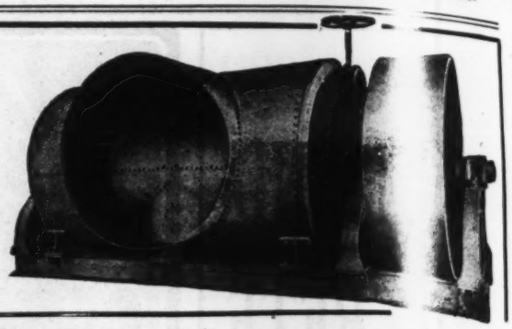

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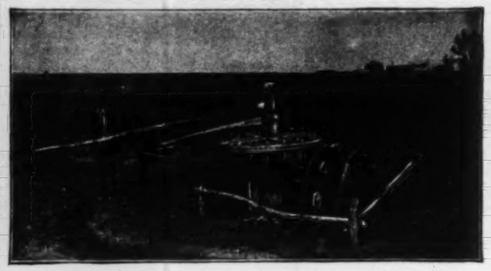

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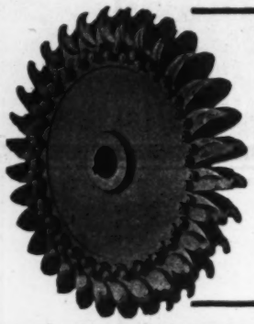

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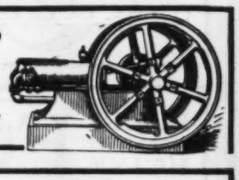

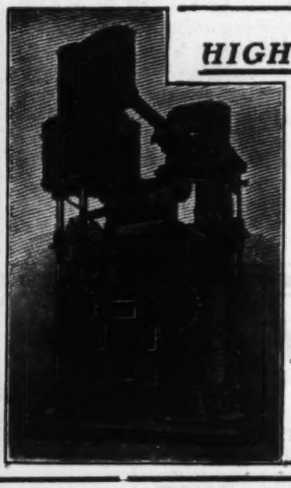

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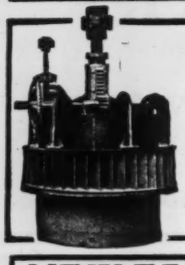

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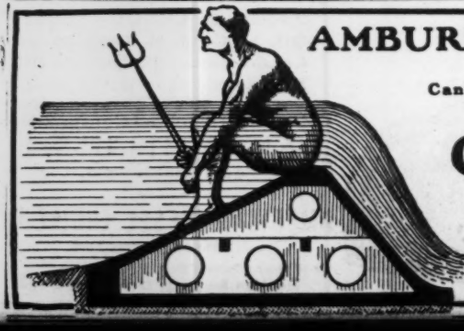

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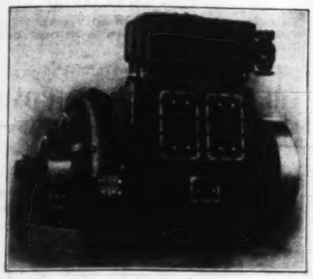

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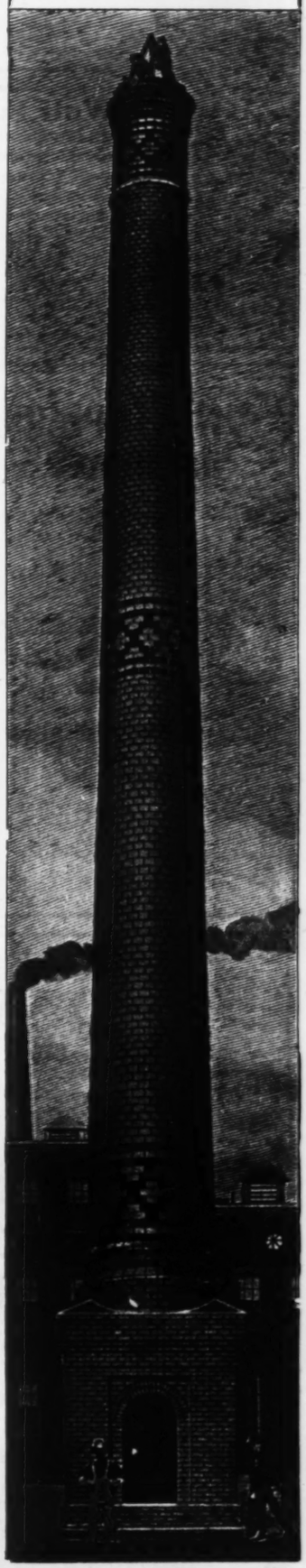

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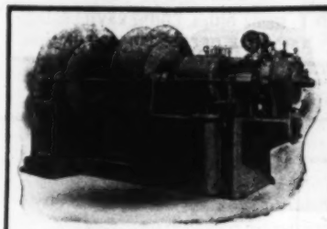

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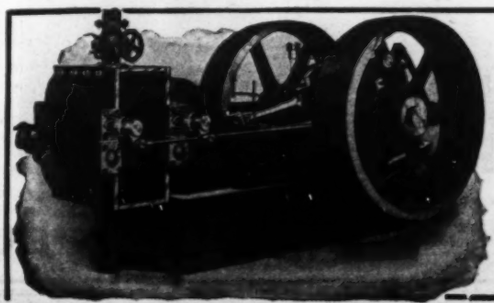

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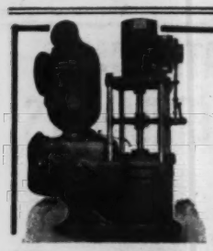

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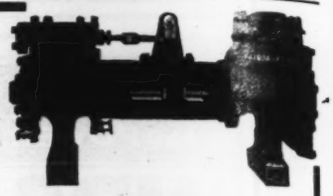

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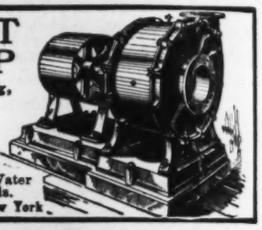

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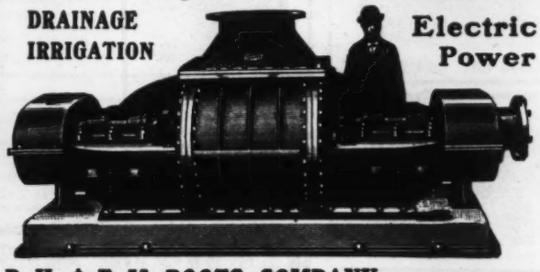

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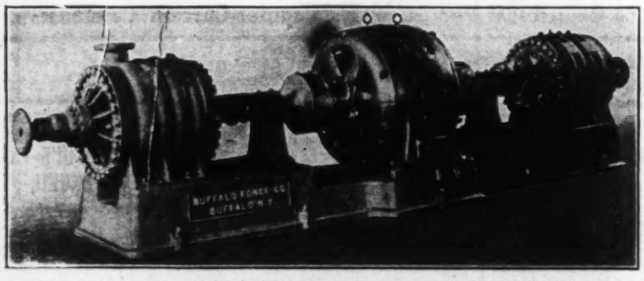

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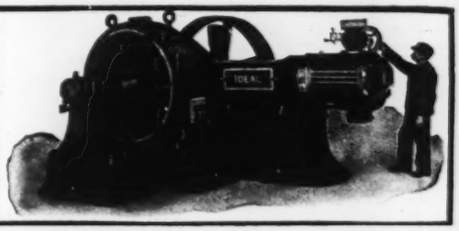

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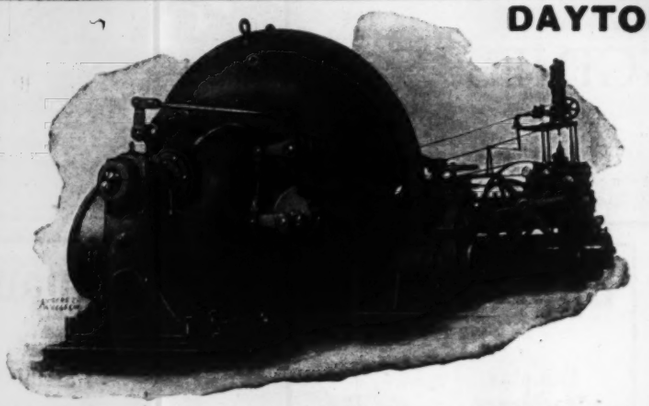

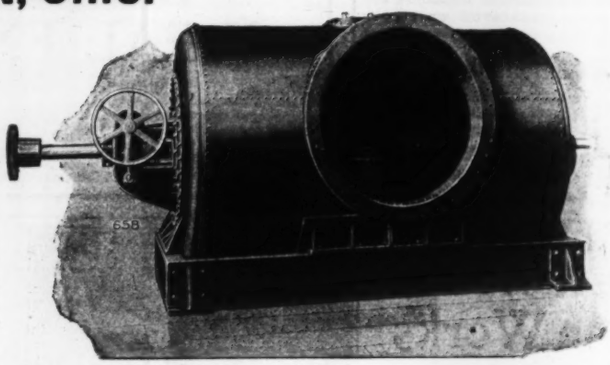

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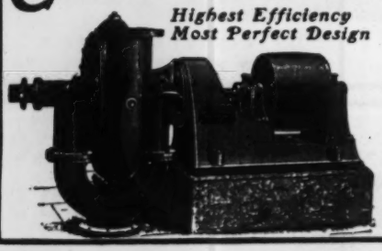

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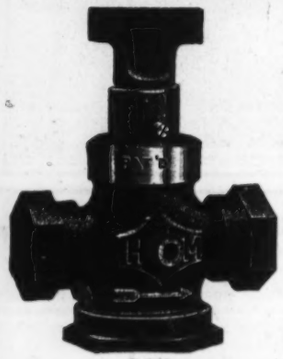

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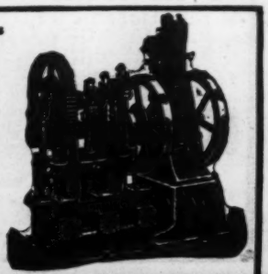

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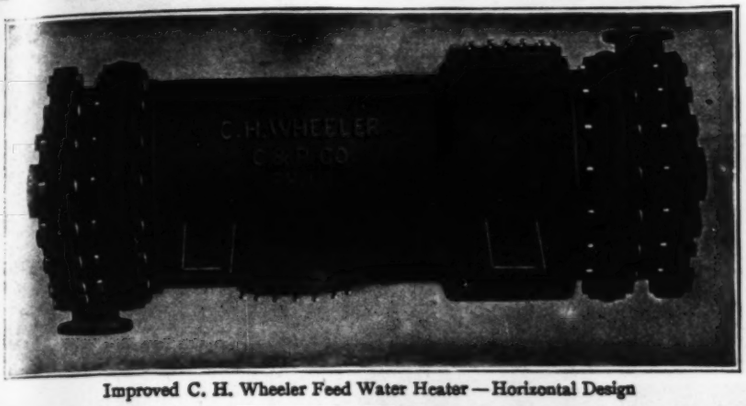

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Special Sewerage and Drainage Pumps

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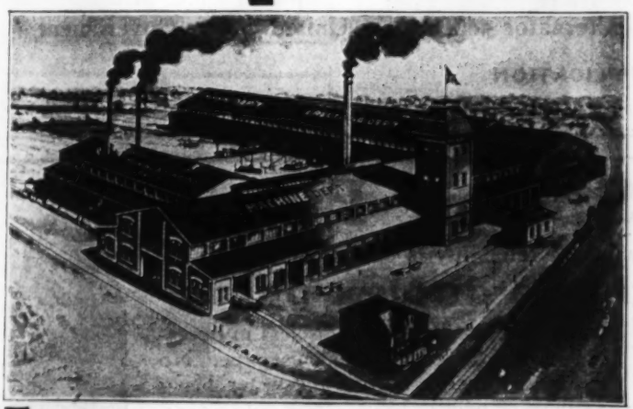

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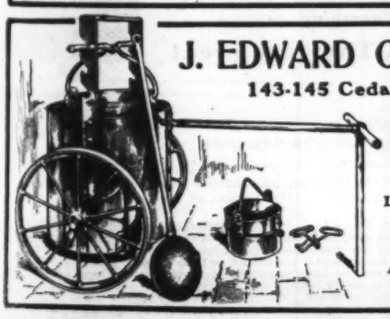
Economy of High Duty with Simplicity of Low Duty Type.



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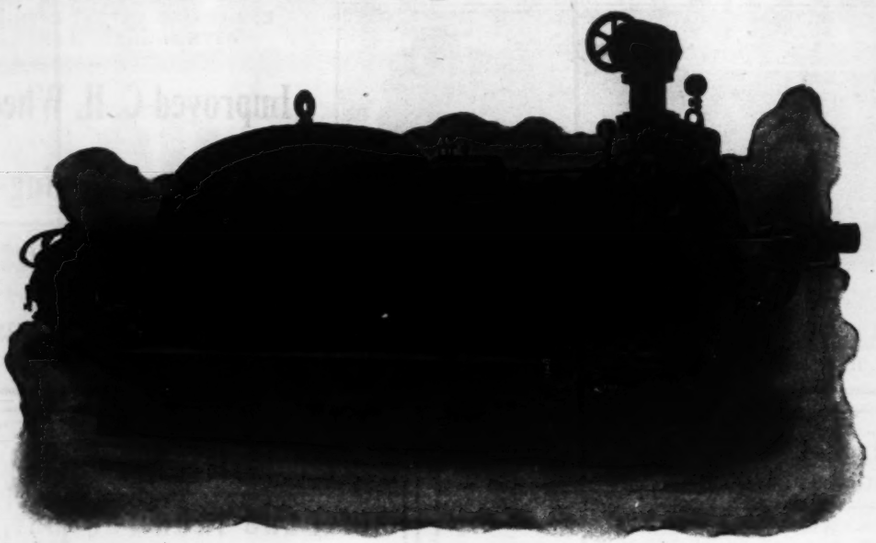
High Duty Pumping, Blowing, Mine Hoisting ENGINES Vertical and Horizontal, Francis and Girard Type TURBINES CENTRIFUGAL PUMPING MACHINERY. Castings up to 40 Tons.

HELP THAT WILL HELP SEE OUR "SITUATION WANTED" PAGES

The Warren Steam Turbine-Alternator



Built in sizes from 100 K. W. to 3000 K. W.

In the design and construction of these units we have accomplished the following features, distinct from other types:

Small floor space required.
Few parts, all of simple construction.
Multiple valve control, giving perfect automatic speed regulation without throttling.
Highest possible steam economy through entire range of load, as the steam consumption per hour horse-power is practically the same for all loads.

The theory is right, the construction is right, the results are right.

We are now building two 750 K. W. Warren Turbine-Alternator sets for the United States Government, Boston Navy Yard.

BULLETINS ON APPLICATION

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The Emerson Steam Pump

Front view

Rear view

BEST IN THE WORLD for all operations where reliability is essential

Uses much less steam than a duplex pump

performing the same service. Handles large quantities of water at small cost. Noiseless in operation. No adjustments to make. No packing glands. No stuffing boxes. No exhaust pipe. No steam liberated. No priming pipe needed. No rubbing surfaces in contact with the water being pumped. No moving parts exposed. No rocker arms, pulleys or belts. Our system cuts out all the troublesome parts that are necessary adjuncts to others. Handles muddy gritty water without being damaged. Large percentage of air entering its suction pipe does not stop its working. It will drain a sump and keep it drained without constant attention. Works as well suspended as if on a fixed foundation. Takes up less room, is easier and quicker to install and handier than any other. It has more points of genuine merit, less of demerit, and is more reliable than any pump ever built, and will handle material satisfactorily that would destroy other pumps in short order. It is entirely self-contained, and a little steam pipe connecting it with the boiler does the work.

Our Catalogue C will be a revelation to you if you are interested in pumping

Ask about our Quick Cleaning Strainers and Foot Valves. They are great

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Established, 1868.

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General Contractors and Manufacturers of Bridges and Structural Material,

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The Emerson Steam Pump Co., Alexandria, Va.: Washington, D. C., *September 14, 1904.*

Gentlemen:—Complying with your request for our opinion of the No. 4 Emerson Steam Pump which we installed July 7th on our work in construction of the new Pier for the Aqueduct Bridge across the Potomac River, will say, that it has since that time been running twenty-four hours daily, pumping muddy and gritty water uninterruptedly on a lift of about 40 feet with little or no attention, no delay and no expense whatever for repairs, and doing its work so silently that the stream of water which it throws is the only indication of its presence. Running as it has most of the time up to its full capacity, yet it shows no evidence of wear or weakness; its durability cannot be questioned.

It is very inexpensive and quick to install, is far more reliable and requires less attention than any pump we have ever used, and we have had an extensive experience of over twenty-five years with all classes of pumps on this kind of work, which is difficult. Its capacity is fully up to your rating, and is very large compared with its weight and size. It takes up very little room, being suspended on a set of chain blocks lowered right down to the work. It does not stop working or change speed when air is admitted into the suction pipe, but takes in air and water together and holds the water level in the sump right down to the lower end of the suction pipe. It is the best pump to make a sump, as it can be lowered without shutting off steam. There is no expense or trouble with packing.

Exposure to any kind of weather or rough usage does not injure it or affect its working.

Since its installation, we have discontinued the use of all our Centrifugal Pumps that we were using on the work, and have thus been enabled to dispense with the services of two Engineers who were running them before we installed the Emerson.

To be brief:—It is an ideal Pump, without any faults that we have been able to discover. Its many advantages render it by far the most efficient and economical Pump for our work that we have found in all our experience, and we recommend it as worthy of every claim you make for it, and will willingly answer any inquiries your prospective customers may wish to make. Respectfully yours,

PENN BRIDGE CO., per John H. Campbell, *Superintendent.*

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'Phone, Cuyahoga R 841. Washington, D. C., Office: Room 38, Dockon Building.

The Emerson Steam Pump Co., Alexandria, Va.: Washington, D. C., *January 19, 1905.*

Gentlemen:—Herewith we send you cheque in payment for the pump we recently purchased from you. Would say concerning the pump that it is the best pump we ever used. We own pumps of various types, the Edson diaphragm, Pulsometer, ordinary piston pumps as well as a direct connected centrifugal, and we find the Emerson pump superior to them all. It weighs so little in proportion to its capacity that it costs very little to set up. Since it requires no engineer, it is very economical to use. When we have only a little water in the trench, we prefer to set up the Emerson pump rather than use the Edson diaphragm pump, since it pays us to do so.

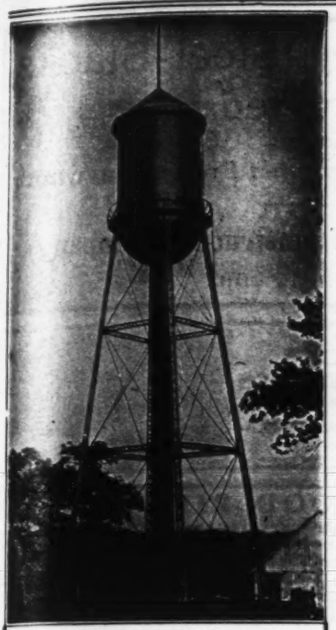
When we have much water we use the Emerson pump because it throws more water in proportion to the size of the steam pipe than any pump we have ever used. Although you list the pump as having a capacity of two hundred and twenty-five gallons per minute, we have by actual measurement of the pit, pumped close on to four hundred gallons per minute, raising the water twelve feet, steam pressure ninety pounds, and the pump being one hundred and seventy-five feet away from the boiler with the temperature around the freezing point.

We have used your pump on long continuous runs as well as in places where we only used it five minutes every hour, and find it the most reliable, simple, efficient and economical pump we ever used.

The fact that it requires no priming, no foundation, no engineer or attendant, that it handles very muddy or gritty water, makes it the most desirable pump for contractors' use ever constructed. Very truly yours,

GAYER-PETER CONSTRUCTION CO., by W. C. Gayer.

THE EMERSON STEAM PUMP COMPANY, Office and Works, Prince Street and Strand, Alexandria, Va., U. S. A.



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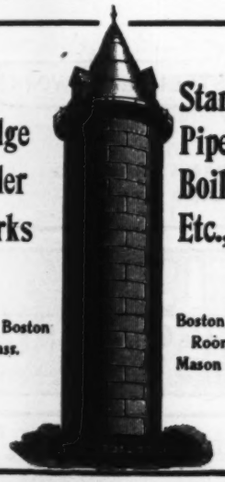

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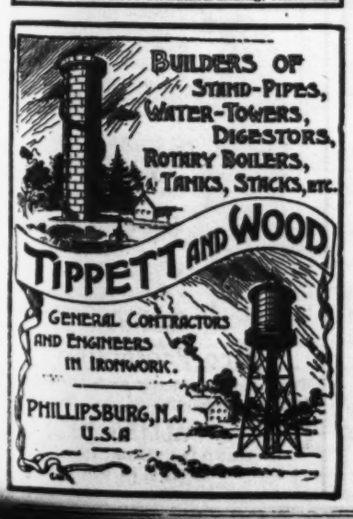
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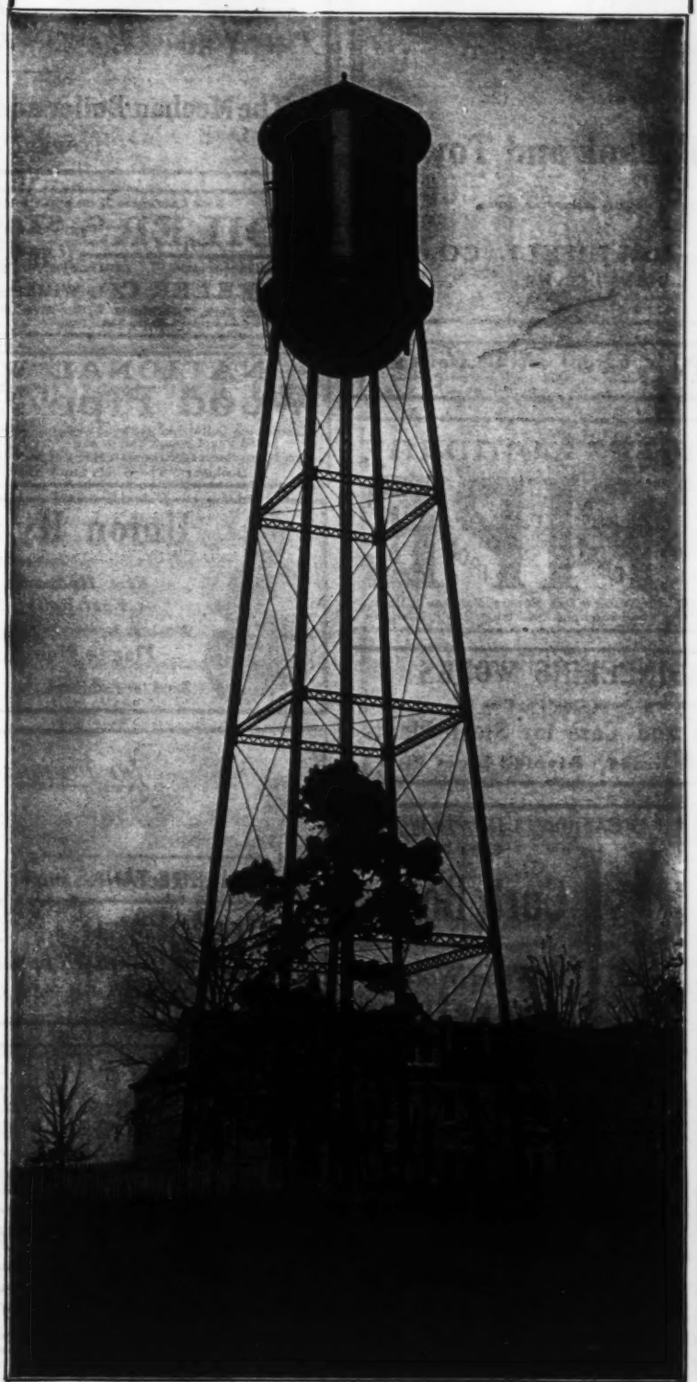

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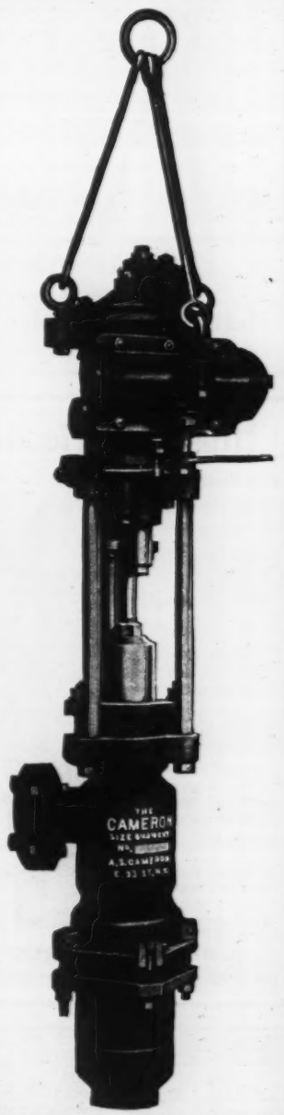

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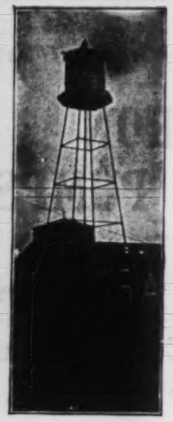

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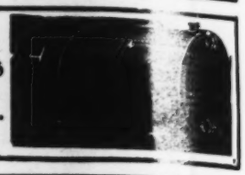

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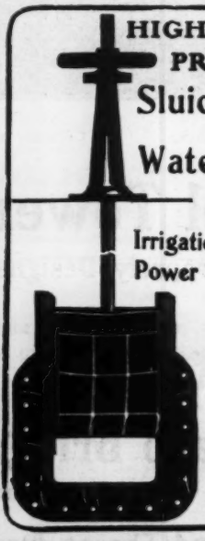

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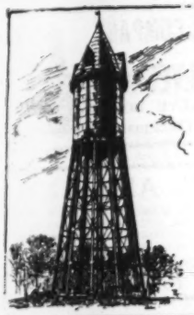

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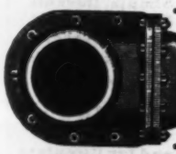

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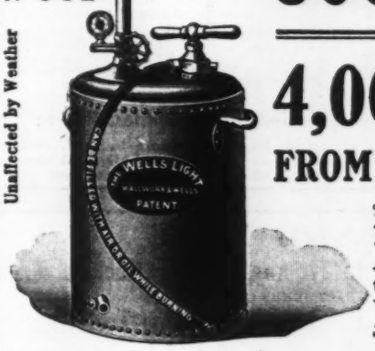

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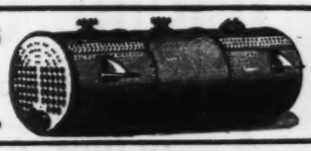

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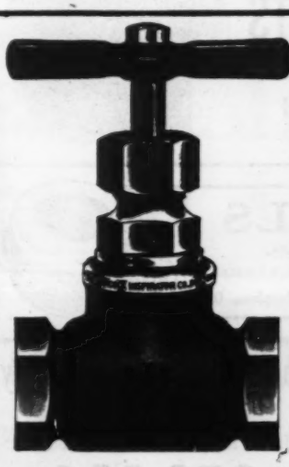

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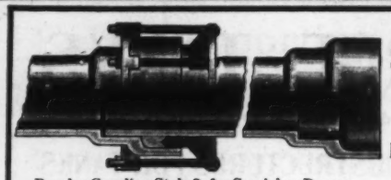
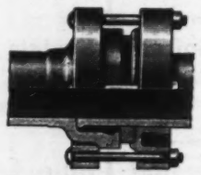


Regular Coupling Style 9, for Special or Dresser Style Cast Iron Pipe



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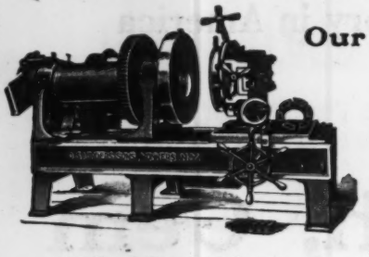

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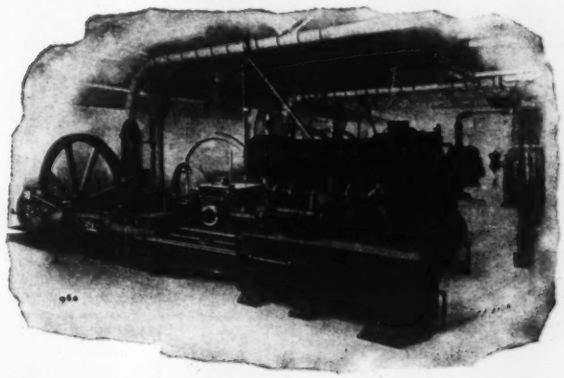

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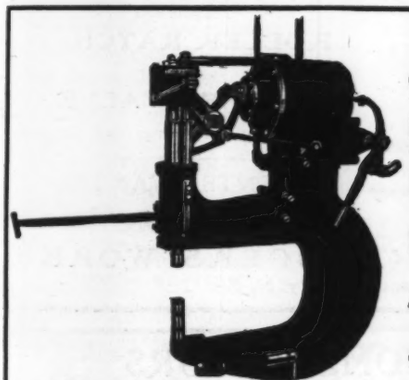

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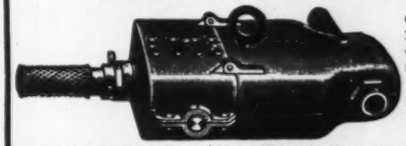

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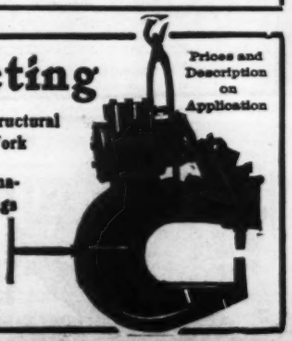

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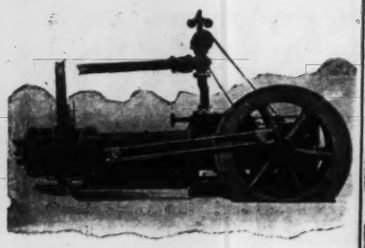

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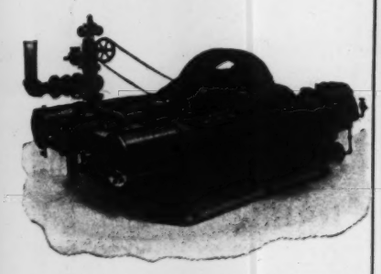

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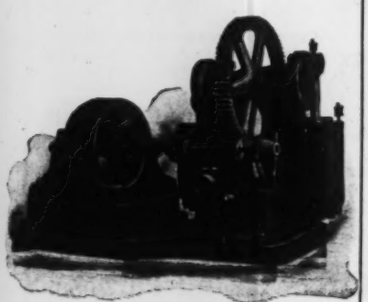
The "Imperial," Type 10, steam-driven compressor is our latest model. It is of the duplex pattern, employing a heavy box bed with the steam and the air (or gas) cylinders at opposite ends, and the balance wheel located nearly in the center. It is self-contained, self-oiling and requires but little attention.



Imperial, Type 11, Electric-Driven Compressors

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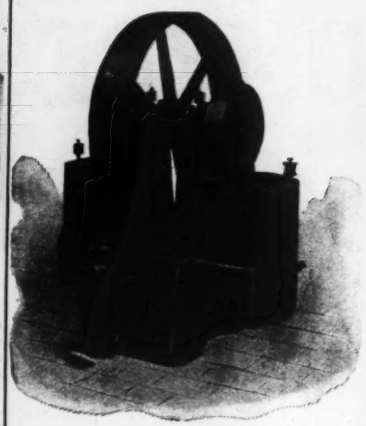

Rand, "Imperial," Type 11 Compressors

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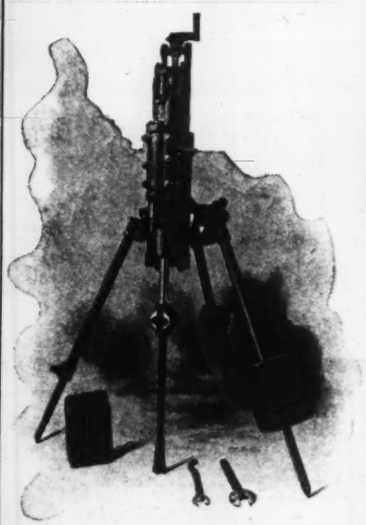

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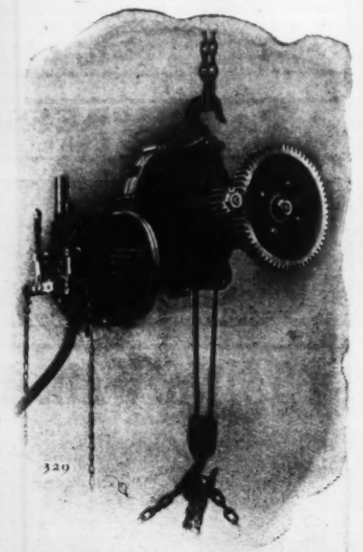

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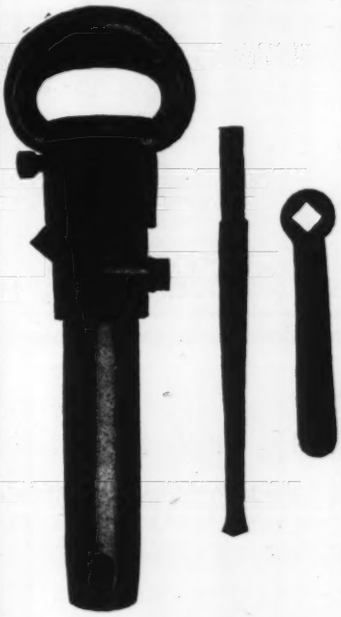

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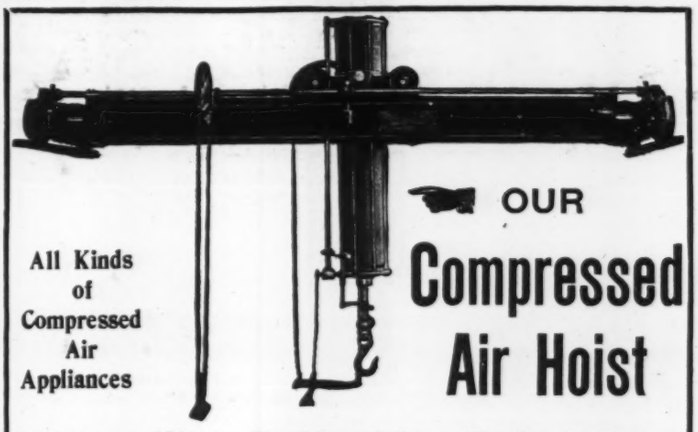

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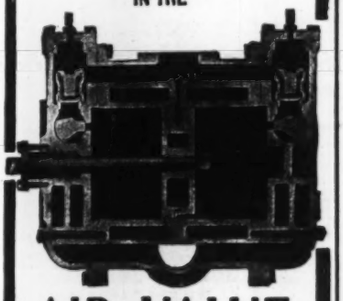

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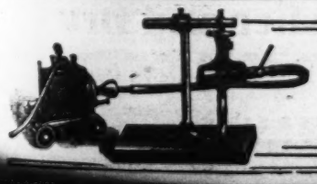

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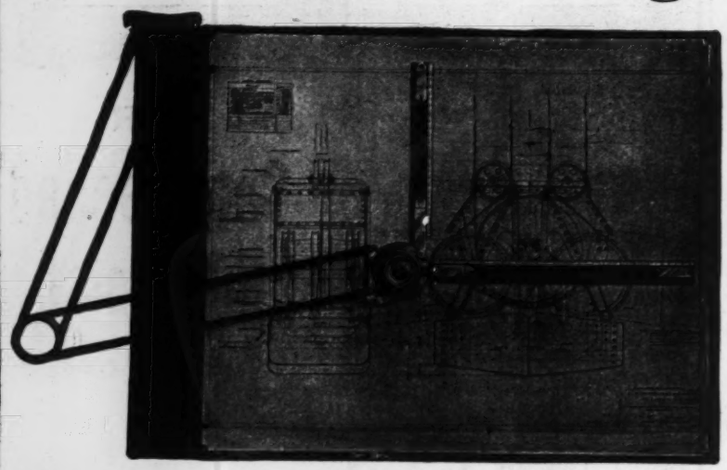

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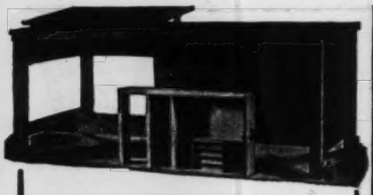

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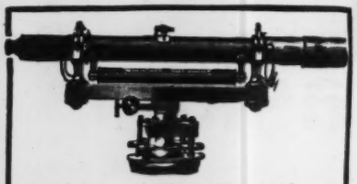

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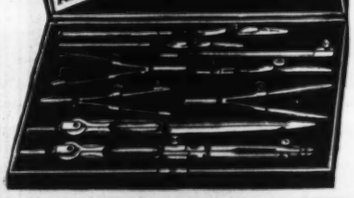

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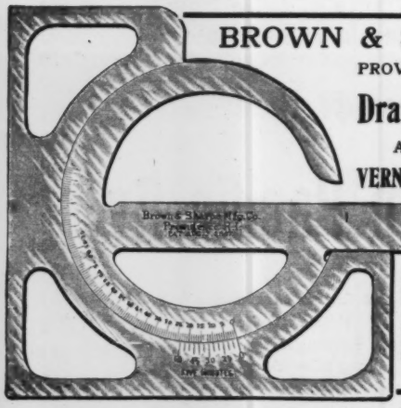

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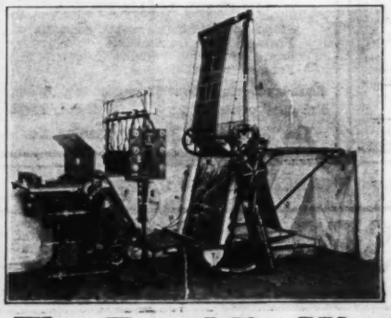

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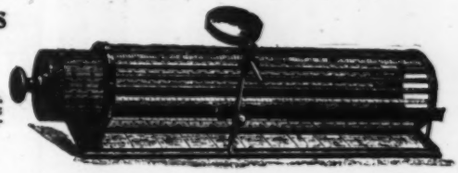

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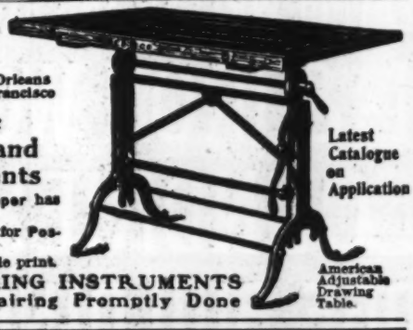

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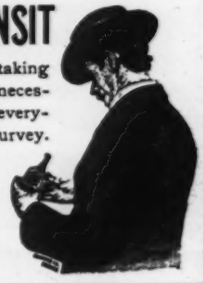

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EXPERIENCED DRAFTSMAN wants position with railroad or engineer, preferably on construction work; 3 years' experience in field and office; first-class draftsman and letterer; graduate civil engineer; age 24. Address "R. 20," Engineering News, New York. 20-12t

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STRUCTURAL DRAFTSMAN.—Graduate engineer (30), 4 years' experience detailing bridges, viaducts and office buildings, desires permanent position in Philadelphia; $75 to start; 10 days' notice. Address "DRAFTSMAN," 2332 N. 21st St., Philadelphia, Pa. 25-2t

POSITION wanted as chief draftsman by technical graduate mechanical engineer, experienced in heavy mill building and machinery design and construction. Address "D. 24," Engineering News, New York. 24-3t

FIRST-CLASS DRAFTSMAN (28), desires position in California; competent to take charge structural work. Address "B. A. 24," Engineering News, New York. 24-4t

WANTED.—Position as engineer or draftsman; good instrumentman; experienced on mine and topographical maps; least salary, $100 per month. Address "M. 19," Engineering News, New York. 24-3t

WANTED.—Position, by structural draftsman; 2 years' experience; moderate salary. Address "K. 26," Engineering News, New York. 26-1t

Surveyors.

CHIEF OF PARTY, at Liberty June 1; good draftsman; 3 years' experience railroad, mine and topographical; 2 years college; go anywhere. References. Address "F. 21," Engineering News, New York. 21-6t

WANTED.—Position with an engineer; have used transit or level. Address "X. 26," Engineering News, New York. 26-2t

RODMAN.—Young man (19) wishes position as rodman; go anywhere. Address "G. 26," Engineering News, New York. 26-1t

To Employers of Technical Help

WHEN about to engage new technical help, we ask our readers to write to the advertisers in our "Situations Wanted" columns, pages 26, 27, 28. Letters addressed to keyed advertisers will be forwarded, at our expense, immediately on receipt, as we are not at liberty to give names of such advertisers. If the kind of assistance wanted is not advertised, write us and we can, no doubt, help you immediately and without cost to you.

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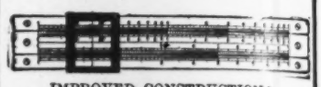

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SITUATIONS WANTED

See first column for rates

TRANSITMAN.—Graduate in surveying and mapping, wishes position as transitman good references. W. R. HOLLOWAY Chinook, Mont. 24-10

RODMAN (23) familiar with instrument work two years' experience in field and office three years' college, 1½ technical education, desires position with civil or mining engineer; location immaterial. Address "J. R. F.," 514 Chestnut St., Coshocton, Ohio. 25-2

YOUNG MAN—B. S. '05—Rodman, mechanical draftsman, practical knowledge of accounts and business methods, desires position with civil or contracting engineer; salary secondary. Address "G. A. 25, "Engineering News, New York. 25-2t

YOUNG MAN (22), experienced at railroad and mining surveying, desires position in any capacity. Address "Z. A. 25," Engineering News, New York. 25-2t

Superintendents, Misc., etc.

ACCOUNTANT, 30 years in banking, treasury and other work, wants position with contractor, machinery or manufacturing establishment; Middle West or New York City; familiar with machinery; can originate methods; highest character and references; $1,500 first year. Address "S. A. 23," Engineering News, New York. 23-4t

YOUNG MAN (28), ten years' experience as timekeeper, foreman and office man desires good, steady position anywhere; highest references. Address "F. 25," Engineering News, New York. 25-3

ENGINEER AND SUPERINTENDENT, technically educated, both civil and mechanical engineering; age, 37; M. Am. Soc. C. E.; broad and comprehensive experience in general engineering and contracting, having had full charge of designing and constructing important works during past 12 years. Experience on railways, canals, rivers, harbors, dredging, excavating, earth and rock tunnels, sewers, waterworks, reservoirs, docks, wharves, difficult foundations, submerged structures, Cofferdams, caissons, estimating cost, bidding on and executing contract work, purchasing supplies and machinery, handling large forces and executing difficult work. Full information on request. A1 references. Sober and industrious. Proper position with contracting firm north or east. Replies will please state nature and length of employment. Address "L. 12," Engineering News, New York. 23-5t

INDUSTRIAL ENGINEER, experienced in the design and construction of large plants, is open for engagement with new company. Address "ENGINEER," 1203 Delaware Ave., Buffalo, N. Y. 23-4t

SALESMAN, 30 years of age, with eight years' experience selling high grade specialties; am experienced and competent in taking complete charge of sales and advertising. Address BOX 69, Station E, Cleveland, O. 25-2

STEAM SHOVEL, QUARRY OR CONCRETE SUPERINTENDENT.—Open for position; fifteen years' experience on such work; competent to organize, supervise and push large forces on work of character named above; 39 years of age; unmarried and strictly sober. Address "S. A. 25," Engineering News, New York. 25-4t

MANAGING ENGINEER, graduate of prominent engineering school; age 37; experienced in care of property of great value; management of work of large magnitude, involving large expenditures, requiring engineering and business capacity, and honesty; seeks business or engineering connection, with salary based on high grade service; holds position of 10 years' standing; clean record and successful operations. Address "X. A. 25," Engineering News, New York. 25-2t

ARCHITECTURAL ENGINEER is open for offers; expert on steel construction and armored concrete; now employed. Address "M. 26," Engineering News, New York. 26-2t

SUPERINTENDENT OR GENERAL FOREMAN of railroad track construction open to offer; thoroughly experienced and good organizer. Address "R. 14," Engineering News, New York. 26-6t

BUILDING SUPERINTENDENT.—Graduate engineer, experienced in office building construction, etc., in New York and Philadelphia; can estimate and take hold of office end of work if desired; present employers are discontinuing general contracting; A1 references. Address "F. 26," Engineering News, New York. 26-2t

CONCRETE-STEEL ENGINEER and superintendent open for a position; calculation and design in reinforced concrete buildings; capable of looking after important work. Address "S. 26," Engineering News, New York. 26-2t

SITUATIONS OPEN (or Vacant)

Rates 3 cents a word a time, set solid; 4 cents single leaded; 4½ cents double leaded; display $1.50 an inch. Miscellaneous wants are the same rate. Copy for Classified Advertisements may be left at any office of the American District Telegraph Co., New York City.

WANTED.—At once, good mechanical draftsman, accurate worker for getting out details. Reference required. Address MACK BROS. MOTOR CAR CO., Allentown, Pa. 24-3t

WANTED.—A man for assistant to the contracting engineer of a large structural steel company; must be an accurate and rapid estimator, have good judgment in using price list and experience in making up bids and attending to office correspondence. A chance for promotion after a year's trial. No one will receive an answer who has not had the experience mentioned. State salary and age. Address "A. 24," Engineering News, New York. 24-4t

WANTED.—A competent mechanical engineer to design motor vehicles. A man familiar with gas engines and transmission systems preferred. State fully experience and salary expected. Address "H. 25," Engineering News, New York. 25-tf

CAST-IRON pipe foundry pit foreman to go West. Address, stating references and salary, "I. 25," Engineering News, New York. 25-2t

WANTED.—Draftsman for highway bridge and structural steel work. Address, giving age, nationality, education, experience, and salary expected. CLINTON BRIDGE & IRON WORKS, Clinton, Iowa. 25-3t

WANTED.—An architectural draftsman, experienced and capable in designing, detailing, and constructing modern railroad shop buildings; good salary to right man; only capable men need apply. Address SOUTHWESTERN, 404 Mesa Ave., El Paso, Texas. 25-3t

WANTED.—An instructor for general work in mechanical engineering in an eastern technical school; technical graduate with some years practical work. Give statement of training and references; send no letters. State lowest salary that would be considered. Address "K. 25," Engineering News, New York. 25-4t

DRAFTSMEN wanted who are familiar with centrifugal pump design and practice. State experience, references and salary expected. Address "X. 24," Engineering News, New York. 25-3t

WANTED.—First-class railroad engineer, to plan terminal and other yard improvements for large Northwestern system; one who has had large experience in such work. Address "G. 25," Engineering News, giving full particulars as to experience, age, salary, etc. 25-3t

WANTED.—Expert drill operator, Naval Station, Guantanamo, Cuba. For further information address CHIEF OF THE BUREAU OF YARDS AND DOCKS, Navy Department, Washington, D. C. 26-3t

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See preceding column for rates.

SUPERINTENDENT wanted for sand-lime brick plant near New York. He must be a thoroughly competent mechanic and engineer, with experience in handling brick. Highest references required. Address "I. 26," Engineering News, New York. 26-1t

WANTED.—Several first-class draftsmen and checkers on structural steel for building work. None but experienced men need apply. Liberal salaries will be paid to competent people and men promoted according to ability. Apply by letter or in person to R. S. ARMSTRONG, Engr. Brooklyn Plant, Empire Bridge Co., Foot Clay St., Brooklyn, N. Y. 26-2t

WANTED.—By large structural steel company, three or four first-class structural steel draftsmen and checkers. Apply stating qualifications, age, experience and salary expected. Address "H. 26," Engineering News, New York. 26-4t

AGENCIES or BUREAUS

5 cents a word.

TECHNICAL MEN, ATTENTION.—Among the many opportunities for technical men now on our lists are probably several for which you are qualified. Why not get in line for these and others which are constantly coming to us? We are always needing competent draftsmen, engineers, superintendents, etc., to take positions paying from $1,000 to $5,000 a year. Write to-day for booklets telling how we can place you, stating kind of position you can fill, or, better still, call on our technical manager. Offices in 12 cities. HAPGOODS (INC.) BRAIN BROKERS, Suite 508, 309 Broadway, New York.

MISCELLANEOUS WANTS

Cards under this head are inserted in uniform style, in solid type, at 3 cents a word (address to be counted); displayed (to occupy not less than one inch space), $1.50 an inch. Cash MUST accompany the order in all cases. Copy for Classified Advertisements may be left at any office of the American District Telegraph Co., New York City.

SPECIALTIES DESIRED for a plant, completely equipped, for machine, pattern, plate, forged and riveted work, on which low prices and prompt delivery are desired. We are well qualified to develop, manufacture, and finance meritorious patents or specialties suitable to our equipment. We also lend the services of an efficient sales department to customers' interests.
THE NORTH PENN IRON CO.,
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WORKING DRAWINGS.—Steam engineering, mining and hydraulic machinery; oil or gas engines; estimates, calculations; development of patentable ideas; agencies wanted. E. L. RAGONNET, Mechanical Engineer and Designer, Room 66, 8th floor, Equitable Building, New York. 21-10t

FOR SALE.—Paid up Scranton school scholarship for complete course in civil engineering, including valuable reference library, for $45. Cost me $100. A. E. CLARK, Press-Post, Columbus, O. 26-1t

EXPERIENCED PRACTICAL CONTRACTOR and engineer, twenty years' charge constructing railways, bridges, tunnels, cofferdams, masonry, municipal works, etc., wishes partner who will furnish capital, twenty-five to fifty thousand dollars. Address "R. 26," Engineering News, New York. 26-7t

MISCELLANEOUS WANTS.

See preceding column for rates.

WANTED.—Will pay 10 cents each for Engineering News of Jan. 12 and 26, 1905, Nov. 17, 1904, March 2 and 9, and April 13, 1905. "A. R. T.," care of Engineering News, New York. tf

YOUNG MAN with from five to ten thousand dollars can secure an active interest in the business of structural and ornamental iron works. Address "F. 7," Engineering News, New York. 10-tf

PROFESSIONAL advice given by competent engineer. Address "H. 16," Engineering News, New York. 16-12t

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1½ Yard Steam Shovel

Marion preferred.
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Situations Wanted

Received too late for pages 26 and 27. Copy should be received by Tuesday a. m.

Mechanical and Electrical Engineers.

MECHANICAL ENGINEER, ten years' experience in the design and construction of hoisting machinery, engines, boilers, pumps, steel cars, and structural work, wishes responsible position; expert at calculation of stresses and economical proportioning of parts; shop practice. Address "W. 26," Engineering News, New York. 26-1t

Civil Engineers.

CIVIL ENGINEER (graduated) with 8 years' experience in railroad work and general engineering, desires responsible position with consulting or contracting concern. Address "L. 20," Engineering News, New York. 26-1t

CIVIL ENGINEER (graduate), with 7 years' experience on designing and construction of railroads, docks, dams, industrial plants and water-works, desires position. Address "O. 26," Engineering News, New York. 26-2t

CIVIL ENGINEER; graduate; 15 years' experience, water-works construction and designing; railroad, municipal and general engineering and surveying, open for engagement; excellent draftsman and hydraulic engineer. Address "G. 20," Engineering News, New York. 26-1t

Surveyors.

YOUNG MAN (21), student I. C. S. surveying and mapping course, desires position in field or office to get practical experience; good references. Address "C. A. 23," Engineering News, New York. 26-3t

SURVEYOR wishes steady position in or near New York City. Good chainman and transitman; able to do any office work; well recommended. Address "Z. 26," Engineering News, New York. 26-3t

GRADUATE; surveying and mapping; 2 years' experience; handles instruments; wants position. P. O. BOX 120, Richland Centre, Pa. 26-1t

SURVEYOR, four years' experience in field and office, two years electric railroad location and construction, two years land surveying and street construction; also two years' practical experience on irrigation in West; good draftsman; desires position in Middle West; good references. Address "C. 26," Engineering News, New York. 26-1t

Draftsmen.

DRAFTSMAN, first class, superior and rapid letterer; expert in topographical work and calculations; maps, roads, railroads, sewers, earthworks, estimates, etc., open for engagement New York City. Address "A. A. 25," Engineering News, New York. 26-1t

STRUCTURAL DRAFTSMAN; three years' experience on mill and office buildings; references. Address "E. 25," Engineering News, New York. 26-1t

STRUCTURAL DRAFTSMAN, long years' experience in office, mill, school buildings, coal and ore conveying plants, hip and valley roofs, designing and detailing, wants permanent position. Address "B. 26," Engineering News, New York. 26-1t

Superintendents, Misc., etc.

YOUNG MAN wants position with contractor; eight months' experience; good references. CHESTER GROUND, Cedar Rapids, Ia. 26-2t

SPECIALIST in centrifugal pumps, graduate, 29 years old, European and American practice in high and low pressure pumps, wishes position in charge of engineering department with concern established in this line or introducing same. Address "F. A. 24," Engineering News, New York. 26-1t

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well experienced in moving earth hydraulically with sluices. The water required for the purpose is near by but must be raised about thirty-five feet with pumps. Will sublet to right party. Answer quick.

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Miscellaneous Wants

CIVIL ENGINEER, just established, expert in structural steel, hip and valley roofs, conveying plants, wants contracts in designing, detailing or superintending. Address "A. 26," Engineering News, New York. 26-1t

WANTED—TO PURCHASE
Two Dump Scows

250 to 300 cubic yards capacity, must be in good condition, ready for immediate use. State lowest price, and where same can be seen.

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Second-Hand Direct-Acting Steam Pump

2,000,000 Imperial gallons in 24 hours against 125 lbs. water pressure. Steam pressure, 110 lbs. Address,

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BOILERS—1 25 HP. Atlas Locomotive Type
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PUMPS—2 Edson Diaphragm No. 4.
With 10 or 20 feet of 4 in. Suction Hose
2 Worthington Steam Duplex, 5¼ x 8¼ x 5 in.
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Several Gurly Levels and Dietzgen Levels and Transits
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One 125 HP. Locomotive Portable.
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Three 40 HP. Locomotive Portable on wheels.
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Also 30, 25, 20 and 15 HP. on wheels or skids.

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8 x 10 Ryan & McDonald, double cylinder, double drum with or without boiler.
7 x 10 Flory double cylinder, double drum with boiler.
7 x 10 Lidgerwood double cylinder, double drum.
6½ x 10 Crook, double cylinder, double drum.
6¾ x 8 (O. & S.) double cylinder, double drum with boiler.
Single drum engines and belt hoists.

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Air Compressors, Rock Drills, Channelers, Concrete Mixers, Stone Crushers, Centrifugal and Steam Pumps, Boilers, Engines and general Machinery.

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FOR RENT
Two Marion A Steam Shovels
1¾-yard Dippers
Little Giant Steam Shovel
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1 11-ton, 30-in. gage, Saddle Tank; cyls., 9 x 12 ins. Four 32-in. drivers.
1 12-ton, 42-in. gage, Vulcan Saddle Tank; cyls., 9 x 14 ins. Four 27½-in. drivers.
2 7½-ton, 36-in. gage, Porter Saddle Tanks; cyls., 7 x 12 ins. Four 26-in. drivers.
1 8-ton, 36-in. gage, Dickson Saddle Tank, mine type; cyls., 8 x 12 ins. Four 26-in. drivers.
1 9-ton, 36-in. gage, Porter Saddle Tank; cyls., 8 x 14 ins. Four 28-in. drivers.
1 12-ton, 36-in. gage, Byers geared; cyls., 7 x 10 ins. Four 30-in. drivers, steel gears.
1 10-ton, 36-in. gage, Dickson Saddle Tank; cyls., 9 x 12 ins. Four 28-in. drivers. Mine type.
1 14-ton, 36-in. gage, Porter Saddle Tank; cyls., 9½ x 14 ins. Six 33-in. drivers. Tires, 2¼ ins.
1 45-ton stand. gage Dickson Am. type; cyls., 18 x 24 ins. Four 60-in. drivers.
1 45-ton stand. gage Dickson Mogul; cyls., 18 x 24 ins. Six 56-in. drivers.
Also many others of various gages and patterns. Write me.

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Fifty-two "RYAN-McDONALD" three foot gauge, four yard, one-way dump cars. Used from eight to eleven months; repairs kept up on work; painted when stored; good condition; ready to work.

May be inspected at yards, Indianapolis, Ind. Delivery, Indianapolis, Ind.

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Address, **S. J. FLETCHER, Indianapolis, Ind.**

FOR SALE
See first column for rates

Public Sale of VALUABLE Contractors' Plants

Acting under a decree of the District Court of the United States for the Northern District of West Virginia, in the matter of The Evansville Contract Company, Bankrupt, in Bankruptcy, entered on the 29th day of May, 1905, the undersigned Trustees of the estate of said Bankrupt will sell at public auction to the highest bidder for cash the plants belonging to the estate of said Evansville Contract Company, one portion of which is at Dam No. 3, Glenosborne, on the Ohio River in the State of Pennsylvania, twelve miles below Pittsburg, and the other portion is at Dam No. 18, near Constitution, in the State of Ohio, about five miles above Parkersburg, West Virginia.

The plant which is to be sold at Dam No. 3 is composed in part as follows: 3 Dredge Boats, 3 Derrick Boats, 1 Pump Boat, 2 large Barges, 2 small Barges, 5 Hoisting Engines, 1 Contractor's Locomotive and Cars, 3 Stationary Derricks, 1 lot of Rails and Scrap Iron, 3 Centrifugal Pumps, 2 Pile Driver Leads and Hammers, 7 or 8 Boilers, 2 Concrete Mixer Cubes, Blacksmith Tools and Fittings and a lot of other tools, machinery and fittings such as are generally used by contractors.

The plant which is to be sold at Dam No. 18 is composed in part of the following articles: 1 Crane Boat, 1 Sand Digger, 2 Barges, 1 Steam Shovel, 1 Clam Shell, 1 Orange Peel, 2 40-HP. Boilers, 1 lot of Railroad Iron, 1 Single Drum Engine, 1 Single Engine, 2 6" Centrifugal Pumps, 2 10" Centrifugal Pumps, 1 Force Pump, 1 lot of Pipe and Fittings, 2 Concrete Mixer Cubes, 4 Steam Drills, 7 Concrete Buckets, and a lot of other tools, fittings and machinery generally found in a contractor's outfit.

The sale of the plant located at Dam No. 3 will begin promptly at 1 P. M., Eastern Time, on Tuesday, the 25th day of July, 1905, and the sale of the property at Dam No. 18 will begin promptly at 10 A. M., Eastern Time, on Thursday, the 27th day of July, 1905, and each of these sales will continue until fully completed. All of this property will be sold subject to confirmation by the District Court of the United States wherein said Bankruptcy proceedings are pending.

M. J. BRAY,
C. D. DOTSON,
ALFRED HEINE, } Trustees.

26-4t The Evansville Contract Co.

FOR SALE.
Two Vulcan 65-ton 2½-yard Shovels

Good as new—only used nine months. Guaranteed. Ready for immediate delivery.

BENJAMIN WATSON
66 to 70 Beaver St., Coffee Exchange Building
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NEW YORK ELEVATED R. R. LOCOMOTIVES
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FOR SALE.
One Aveling and Porter Ten-Ton Steam Road Roller

C. E. WILLIAMS
144 Cottage Street Bridgeport, Conn.
26-1t

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Chicago. St. Louis. Works: Cincinnati, O.
Manufacturers of Iron and Steel Railway Car Axles, Locomotive Axles and Steam Work.

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453	1-103-		T. P. C. T. Skew.
453	1-104-		T. P. C. T.
3346	—1-153-	0	T. P. C. T.
11 B	—1- 34-		D. P. Gr.
355 A	—1- 36-		T. P. Gr.
283 A	—1- 47-		D. P. Gr.
448 A	—1-105-		T. P. C. T.
610 A	— 198-		T. DRAW.
665 B	2- 97-11		T. P. C. T.
677 B	—1- 97-		T. P. C. T.
702 A	—1- 97-	4	D. P. C. T.
703 B	—1-298-		T. P. C. T.
	—1-148-		T. P. C. T.
716 B	—3- 47-		D. P. C. T.
3233	—1-154-		T. P. C. T.
3236	—1-103-	3	T. P. C. T.
3336	—1- 98-		T. P. C. T.
7906	—4- 34-	8	D. P. G.
3672	—1- 33-		D. P. G.
3697	—2- 33-		D. P. G.
3741	—2- 33-		D. P. G.
3745	—1- 33-		D. P. G.
3765	—1-103-		T. P. G. T.
4339	—4- 33-		
	—1-131-	8	Thro. Pin Span (Dbl Track).
	—1-125-	0	Deck truss.
	—1-173-	8	Deck truss, on skew.
	—1-160-	0	Iron Span Steel Stringers.
	—1- 51-	8	T. P. Girders.
	NEW BRIDGES.		
	—4- 53-		D. P. Girders.
	—7- 51-		D. P. Girders.
	—3- 64-		D. P. Girders.
	—1- 56-		D. P. Girders.
	—3- 60-		D. P. Girders. 20-4teow

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RAILWAY EQUIPMENT AND SUPPLIES
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80,000 lbs. Capacity Hopper Bottom Coal Cars, Standard Gauge

We have eighteen (18) for sale, built in Fall of 1903. Used nine months.

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10 Hoisting engines, double, 8¼ × 10.
4 Carlin Cube Concrete Mixers.
1 Chicago Concrete Mixer, No. 3.
21 Drop Bottom Concrete Buckets.
1 Cockburn Barrow Concrete Mixer, direct connected.
2 Nitrogen Pyrometers, 1,500° Fahr.

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A very complete little STONE CONTRACTOR'S OUTFIT. Just purchased; good condition; low prices before moving; an investigation well worth any contractor's time.

HOISTING ENGINES, ETC.
7-in. × 10-in. Double Drum Lidgerwood.
7-in. × 10-in. Double Drum Carlin.
6½-in. × 8-in. Double Drum Lambert.
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Double Drum Horse Power Hoist.
Single Drum Horse Power Hoist.
2 Double Drum Belt Hoists.
35-HP. Fire Box Portable Boiler.
48-in. × 9-ft. 40-HP. Vertical Boiler.
4-in. Direct Connected Centrifugal Pump.
About 10 Derricks, various sizes.
8-in. × 12-in. Horizontal Steam Engines.
2 Steam Pumps, 4-in. and smaller.
15-in. × 7-in. Blake Stone Crusher.
Chains.
Windlasses.
Rope.
Blocks.
Suction Pipes.
Pipe.
And other stuff that would go to make a very complete little outfit.

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INC.
Lacock and Sandusky Sts., Allegheny, Pa

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All sizes and in any quantities.
Pipe cut to order.

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For Engineers and Contractors

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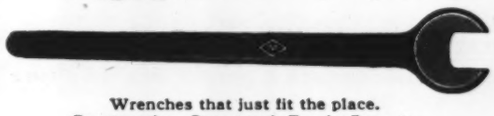
Chester, Pa.

Contractors

we make the tools that help the skillful and defy "wreckers" who are not. All tough Drop-forgings!



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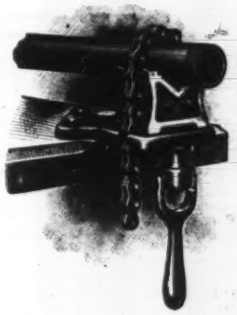
Construction, Structural, Track, Car, etc.



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All kinds of Cargo and Hoisting Hooks, Eye Bolts, Rope Sockets, Rod, Bolt and Yoke Ends for welding to rods.

The celebrated "Vulcan" Chain Pipe Wrench

Catalogue "K"
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WESTERN OFFICE, 18 So. Clinton St., CHICAGO, ILLINOIS.
Full stock of standard goods carried for quick delivery to adjacent territory.

J. H. WILLIAMS & CO.
Drop-forgings only
Brooklyn, New York

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Cut to Length
5,000 Tons in Stock
12,000 Tons
25 to 75 lb. Relays and New

Walter A. Zelnicker
SUPPLY CO. IN ST. LOUIS

RAILS FOR SALE

IMMEDIATE DELIVERY

1,000 tons 56-lb. Relayers with splices.
1,000 tons 60-lb. Relayers with splices.
50 tons 63-lb. Relayers with splices.
20 tons 74-lb. Relayers with splices.
400 tons 40-lb. Relayers with splices.
200 tons 30 and 35-lb. Relayers with splices.
All other sizes of Relaying and New Steel "T" Rails in stock.
Wire or write us for prices and particulars.

HYDE BROTHERS & COMPANY
Empire Building Pittsburgh, Pa.

We Own and Offer for Prompt Shipment
30 lb., 35 lb., 40 lb., 56 lb., 60 lb., 63 lb.

Steel Re-laying Tee Rails

and Angle Splice Bars for same. Also other weight Relaying Rails; advise weight and number of tons wanted; we can doubtless furnish. Also own One (1) Second-hand 36 inch gage, 4-Driver Saddle Tank Porter Locomotive (in first-class condition; repaired and painted). We can make lowest prices on Frogs and Switches and NEW STEEL RAILS. Address

ROBINSON & ORR
419 Wood Street PITTSBURGH, PA.

55-TON BUCYRUS

This Shovel, No. 419, is now working at Cedar Lake, Ind., and is to be replaced by a 70-ton Bucyrus July 25th.

Has Horizontal Boiler, three sets of Engines, 2½-yard Dipper and a lot of new duplicate parts.

Price, $5,500 net cash

Machine is in excellent condition.

I have 25 others for sale of various sizes and makes.

Also Dump Cars, Dinkies, etc.

WILLIS SHAW
171 La Salle Street, Chicago
26 1t

STEAM SHOVELS--FOR SALE or LEASE

1 Marion, 1¼-yd. capacity, with crowding engines.
1 1½-yd. Shovel with crowding engines.
1 1½-yd. Shovel, with crowding engine.
1 1¼-yd. Shovel, with crowding engines, on Standard R. R. Trucks.

THOMAS CARLIN'S SONS CO.
tf 1600 River Ave., Allegheny, Pa.

FOR SALE.

Buffalo Pitts Roller, 13-tons; used 3 months.
9 x 14 Porter, 36-inch gauge; 12 x 18 Standard gauge Locomotives.
12 Wade Dump Wagons.
12 K and I Wheel Scrapers.
Western Dump Cars, 1½ and 2-yards, 36-inch gauge.
Relay Rails, 30, 40, 45, 48, 56 lbs. New light sections. cow

CHARLES F. AVERY, 45 Broadway, N. Y.

1 Modern Bucyrus shovel, 55-ton, 2¼-yd. bucket, shop No. 410. Price $6,000; Chicago, Toledo or Buffalo delivery. First-class condition.

15 36-in. gage, 2-way, 4-yd. dump cars, at $60 each; Chicago, Toledo or Buffalo delivery.

6 36-in. gage, 4-yd dump cars, Pittsburg delivery, at $40 each.

2 12-ton, 36-in. gage dinkeys, Chicago or Buffalo delivery, at $1,500 each. First-class condition.

2 12-ton, 36-in. gage dinkeys, Pittsburg delivery, at $2,000 each.

1 16-ton, 36-in. gage Dickson dinkey, Chicago delivery; nearly new.

4 38-ton American type engines, $2,000 each.

1 improved "A" Marion shovel, shop No 808; Pittsburg delivery; nearly new.

Apply to J. R. PATTON & CO.
647 Railway Exchange, Chicago, Ill.;
302 House Bldg., Pittsburg, Pa. tf

FOR SALE

See first column for rates

IMMEDIATE DELIVERY

One modern 70-ton Vulcan Giant "C" Steam Shovel, 3 yd. dipper, three sets of engines. Built in 1903, used only three months; absolutely as good as new for all practical purposes.

One Model "G" Marion, 60-ton, 2½ yd. dipper, independent engines. Used only two seasons. First-class order.

One Little Giant Modern Vulcan Traction 1¼ yd. dipper, engines on crane. Completely overhauled.

One 55-ton Crane Type Bucyrus, 1¾ yd. dipper; friction crane completely overhauled. Also others.

LOCOMOTIVES

One 9x14 36 in. gauge Porter Saddle Tank.
One 28-ton 4 wheel Baldwin Switcher, separate tender.
One 20 x 24 Consolidation Locomotive.

Also many others Wire or write us your requirements

A. C. TORBERT & COMPANY
Shops at Chicago. 1518 Monadnock Block, Chicago.

Situations Wanted

Received too late for pages 26 and 27. Copy should be received by Tuesday a. m.

Mechanical and Electrical Engineers.

MECHANICAL ENGINEER, ten years' experience in the design and construction of hoisting machinery, engines, boilers, pumps, steel cars, and structural work, wishes responsible position; expert at calculation of stresses and economical proportioning of parts; shop practice. Address "W. 26," Engineering News, New York. 26-1t

Civil Engineers.

CIVIL ENGINEER (graduated) with 8 years' experience in railroad work and general engineering, desires responsible position with consulting or contracting concern. Address "L. 20," Engineering News, New York. 26-1t

CIVIL ENGINEER (graduate), with 7 years' experience on designing and construction of railroads, docks, dams, industrial plants and water-works, desires position. Address "O. 26," Engineering News, New York. 26-2t

CIVIL ENGINEER; graduate; 15 years' experience, water-works construction and designing; railroad, municipal and general engineering and surveying, open for engagement; excellent draftsman and hydraulic engineer. Address "G. 20," Engineering News, New York. 26-1t

Surveyors.

YOUNG MAN (21), student I. C. S. surveying and mapping course, desires position in field or office to get practical experience; good references. Address "C. A. 23," Engineering News, New York. 26-3t

SURVEYOR wishes steady position in or near New York City. Good chainman and transitman; able to do any office work; well recommended. Address "Z. 26," Engineering News, New York. 26-3t

GRADUATE; surveying and mapping; 2 years' experience; handles instruments; wants position. P. O. BOX 120, Richland Centre, Pa. 26-1t

SURVEYOR, four years' experience in field and office, two years electric railroad location and construction, two years land surveying and street construction; also two years' practical experience on irrigation in West; good draftsman; desires position in Middle West; good references. Address "C. 26," Engineering News, New York. 26-1t

Draftsmen.

DRAFTSMAN, first class, superior and rapid letterer; expert in topographical work and calculations; maps, roads, railroads, sewers, earthworks, estimates, etc., open for engagement New York City. Address "A. A. 25," Engineering News, New York. 26-1t

STRUCTURAL DRAFTSMAN; three years' experience on mill and office buildings; references. Address "E. 25," Engineering News, New York. 26-1t

STRUCTURAL DRAFTSMAN, long years' experience in office, mill, school buildings, coal and ore conveying plants, hip and valley roofs, designing and detailing, wants permanent position. Address "B. 26," Engineering News, New York. 26-1t

Superintendents, Misc., etc.

YOUNG MAN wants position with contractor; eight months' experience; good references. CHESTER GROUND, Cedar Rapids, Ia. 26-2t

SPECIALIST in centrifugal pumps, graduate, 29 years old, European and American practice in high and low pressure pumps, wishes position in charge of engineering department with concern established in this line or introducing same. Address "F. A. 24," Engineering News, New York. 26-1t

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WANTED — FOREMAN

well experienced in moving earth hydraulically with sluices. The water required for the purpose is near by but must be raised about thirty-five feet with pumps. Will sublet to right party. Answer quick.

THE FARAGHER ENGINEERING CO.
26 1t Rose Building, Cleveland, Ohio

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CIVIL ENGINEER, just established, expert in structural steel, hip and valley roofs, conveying plants, wants contracts in designing, detailing or superintending. Address "A. 26," Engineering News, New York. 26-1t

WANTED — TO PURCHASE

Two Dump Scows

250 to 300 cubic yards capacity, must be in good condition, ready for immediate use. State lowest price, and where same can be seen.

Address "P-26." Engineering News
New York N. Y. 26-2t

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Second-Hand Direct-Acting Steam Pump

2,000,000 Imperial gallons in 24 hours against 125 lbs. water pressure. Steam pressure, 110 lbs. Address,

MONTREAL WATER & POWER COMPANY
26-1t 62 Alliance Building, Montreal, P. Q.

FOR SALE

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BARGAINS

FOR IMMEDIATE SALE

LOCOMOTIVES—2 Vandalia, Passenger Type, 16 x 24 in.
1 standard Passenger (Franklin) 16x24 in
1 C., B. & Q. 4-wheel Switcher
STEAM SHOVEL.—Vulcan Traction 1¼ yards on standard trucks
CARS—1 Rodger Double Plow Car
10 Standard Gauge Flat Cars, 50,000 lbs. capacity
BOILERS—1 25 HP. Atlas Locomotive Type
1 10-HP. Vertical
PUMPS—2 Edson Diaphragm No. 4.
With 10 or 20 feet of 4 in. Suction Hose
2 Worthington Steam Duplex, 5¼ x 8¼ x 5 in.
1 Worthington Duplex, 1¼ in. discharge
Several Gurly Levels and Dietzgen Levels and Transits
9,000 80 lb. A S C E Continuous Rail Joints
2 62 ft. Spans Highway Bridge, 20 ft. wide

ALL in first-class operating condition, can be delivered promptly, but are subject to prior sale. Address all inquiries to

INDIANA UNION TRACTION COMPANY
Anderson, Indiana

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CONTRACTORS' MACHINERY

Selections from Our Eastern Warehouses

BOILERS

One 125 HP. Locomotive Portable.
One 90 HP. Locomotive Portable.
Three 60 HP. Locomotive Portable on skids.
Two 50 HP. Locomotive Portable on skids.
Two 50 HP. Locomotive Portable on wheels.
Three 40 HP. Locomotive Portable on wheels.
Two 40 HP. Locomotive Portable on skids.
Also 30, 25, 20 and 15 HP. on wheels or skids.

HOISTING ENGINES

10 x 10 Lidgerwood double cylinder, 34" dia. single drum.
8 x 12 Double cylinder, 24" dia. double drums.
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6½ x 10 Crook, double cylinder, double drum.
6¼ x 8 (O. & S.) double cylinder, double drum with boiler.
Single drum engines and belt hoists.

ELECTRICAL HOISTS

Two NEW 15 HP. Lambert double drum, Electric Hoists with 500-volt C. & C. Motors, complete with controllers.

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1	11-ton, 30-in. gage, Saddle Tank; cyls., 9 x 12 ins. Four 32-in. drivers.		c
1	12-ton, 42-in. gage, Vulcan Saddle Tank; cyls., 9 x 14 ins. Four 27½-in. drivers.	1	10 T d
2	7½-ton, 36-in. gage, Porter Saddle Tanks; cyls., 7 x 12 ins. Four 26-in. drivers.	1	14 T d
1	8-ton, 36-in. gage, Dickson Saddle Tank, mine type; cyls., 8 x 12 ins. Four 26-in. drivers.	1	45 c
1	9-ton, 36-in. gage, Porter Saddle Tank; cyls., 8 x 14 ins. Four 28-in. drivers.	1	4 c
1	12-ton, 36-in. gage, Byers geared;	Also	p

THOS. P. CONARD, 119 So. Fo

LONG ISLAND

Low Taxes. Constantly increasing facilities. Favorable terms. Near-by markets.

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Steam Shovels, Locomotives, Dirt Cars, For Sale

Will Sell for Cash and Make Immediate Delivery

Five "DAVENPORT" three foot gauge, nineteen ton, saddle tank "Dinky" Locomotives. New 1903. Used from five to eleven months; repairs kept up on work; good condition; ready to work with slight overhauling.

Fifty-two "RYAN-McDONALD" three foot gauge, four yard, one-way dump cars. Used from eight to eleven months; repairs kept up on work; painted when stored; good condition; ready to work.

May be inspected at yards, Indianapolis, Ind. Delivery, Indianapolis, Ind.

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Address, S. J. FLETCHER, Indianapolis, Ind.

FOR SALE

See first column for rates

Public Sale of VALUABLE Contractors' Plants

Acting under a decree of the District Court of the United States for the Northern District of West Virginia, in the matter of The Evansville Contract Company, Bankrupt, in Bankruptcy, entered on the 29th day of May, 1905, the undersigned Trustees of the estate of said Bankrupt will sell at public auction to the highest bidder for cash the plants belonging to the estate of said Evansville Contract Company, one portion of which is at Dam No. 3, Glenosborne, on the Ohio River in the State of Pennsylvania, twelve miles below Pittsburg, and the other portion is at

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July, 1906, and each of these sales will continue until fully completed. All of this property will be sold subject to confirmation by the District Court of the United States wherein said Bankruptcy proceedings are pending.

M. J. BRAY,
C. D. DOTSON,
ALFRED HEINE, } Trustees,

26-4t The Evansville Contract Co.

FOR SALE.

Two Vulcan 65-ton 2½-yard Shovels

Good as new—only used nine months. Guaranteed. Ready for immediate delivery.

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66 to 70 Beaver St., Coffee Exchange Building
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One Aveling and Porter Ten-Ton Steam Road Roller

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Space under this head is sold at the uniform rate of $1.50 an inch; minimum charge, $1.50 a week . . .

Second-Hand Bridges For Sale

Br. No.	Description. Ft.	In.	
72	2- 66-	6	D. K. LAT. Gr.
72	1-126-		D. P. C. T.
453	1-163-		T. P. C. T. Skew.
453	1-104-		T. P. C. T.
3346	1-153-	0	T. P. C. T.
11 B	1- 34-		D. P. Gr.
353 A	1- 36-		T. P. Gr.
383 A	1- 47-		D. P. Gr.
448 A	1-105-		T. P. C. T.
610 A	1-198-		T. DRAW.
665 B	2- 97-	11	T. P. C. T.
677 B	1- 97-		T. P. C. T.
702 A	1- 97-	4	D. P. C. T.
703 B	1-298-		T. P. C. T.
	1-148-		T. P. C. T.
716 B	3- 47-		D. P. C. T.
3233	1-154-		T. P. C. T.
3296	1-103-	3	T. P. C. T.
3396	1- 98-		T. P. C. T.
7906	4- 34-	8	D. P. G.
3672	1- 33-		D. P. G.
3697	2- 33-		D. P. G.
3741	2- 33-		D. P. G.
3745	1- 33-		D. P. G.
3765	1-103-		T. P. G. T.
4339	4- 33-		
	1-181-	8	Thro. Pin Span (Dbl Track).

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we make the tools that help the skillful and defy "wreckers" who are not. All tough Drop-forgings!

Wrenches that just fit the place.
Construction, Structural, Track, Car, etc.

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"Vulcan"
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Full stock of standard goods carried for quick delivery to adjacent territory.

J. H. WILLIAMS & CO.
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4-in. Direct Connected Centrifugal Pump.
About 30 Derricks, various sizes.
8-in. x 12-in. Horizontal Steam Engines.
2 Steam Pumps, 4-in. and smaller.
15-in. x 7-in. Blake Stone Crusher.
Chains.
Windlasses.
Rope.
Blocks.
Suction Pipes.
Pipe.
And other stuff that would go to make a ver complete little outfit.

Carlin Machinery & Supply Co.
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Lacock and Sandusky Sts., Allegheny, Pa

FOR SALE CHEAP

Second-Hand Wrought Iron Pip

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Pipe cut to order.

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2144 Marion, Ind

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WETHERILL BROS. MACH. CO.
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12,000 Tons
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Walter A. Zelnicker
SUPPLY CO. IN ST. LOUIS

RAILS FOR SALE

IMMEDIATE DELIVERY

1,000 tons 56-lb. Relayers with splices.
1,000 tons 60-lb. Relayers with splices.
50 tons 63-lb. Relayers with splices.
20 tons 74-lb. Relayers with splices.
400 tons 40-lb. Relayers with splices.
200 tons 30 and 35-lb. Relayers with splices.
All other sizes of Relaying and New Steel "T" Rails in stock.
Wire or write us for prices and particulars.

HYDE BROTHERS & COMPANY
Empire Building Pittsburgh, Pa.

We Own and Offer for Prompt Shipment
30 lb., 35 lb., 40 lb., 56 lb., 60 lb., 63 lb.

Steel Re-laying Tee Rails

and Angle Splice Bars for same. Also other weight Relaying Rails; advise weight and number of tons wanted; we can doubtless furnish. Also own One (1) Second-hand 36 inch gage, 4-Driver Saddle Tank Porter Locomotive (in first-class condition; repaired and painted).
We can make lowest prices on Frogs and Switches and NEW STEEL RAILS. Address

ROBINSON & ORR
419 Wood Street PITTSBURGH, PA.

55-TON BUCYRUS

This Shovel, No. 419, is now working at Cedar Lake, Ind., and is to be replaced by a 70-ton Bucyrus July 25th.

Has Horizontal Boiler, three sets of Engines, 2¼-yard Dipper and a lot of new duplicate parts.

Price, $5,500 net cash

Machine is in excellent condition.

I have 25 others for sale of various sizes and makes.

Also Dump Cars, Dinkies, etc.

WILLIS SHAW
171 La Salle Street, Chicago
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STEAM SHOVELS--FOR SALE or LEASE

1 Marion, 1¼-yd. capacity, with crowding engines.
1 1½-yd. Shovel with crowding engines.
1 1½-yd. Shovel, with crowding engine.
1 1¼-yd. Shovel, with crowding engines, on Standard R. R. Trucks.

THOMAS CARLIN'S SONS CO.
tf 1600 River Ave., Allegheny, Pa.

FOR SALE.

Buffalo-Pitts Roller, 13-tons; used 3 months.
9 x 14 Porter, 36-inch gauge; 12 x 18 Standard gauge Locomotives.
12 Wade Dump Wagons.
12 K and I Wheel Scrapers.
Western Dump Cars, 1½ and 2-yards, 36-inch gauge.
Relay Rails, 30, 40, 45, 48, 56 lbs. New light sections. o.w

CHARLES F. AVERY, 45 Broadway, N. Y.

1 Modern Bucyrus shovel, 55-ton, 2¼-yd. bucket, shop No. 410. Price $6,000; Chicago, Toledo or Buffalo delivery. First-class condition.
15 36-in. gage, 2-way, 4-yd. dump cars, at $60 each; Chicago, Toledo or Buffalo delivery.
6 36-in. gage, 4-yd dump cars, Pittsburg delivery, at $40 each.
2 12-ton, 36-in. gage dinkeys, Chicago or Buffalo delivery, at $1,500 each. First-class condition.
2 12-ton, 36-in. gage dinkeys, Pittsburg delivery, at $2,000 each.
1 16-ton, 36-in. gage Dickson dinkey, Chicago delivery; nearly new.
4 38-ton American type engines, $2,000 each.
1 improved "A" Marion shovel, shop No 808; Pittsburg delivery; nearly new.
Apply to J. R. PATTON & CO.
647 Railway Exchange, Chicago, Ill.;
302 House Bldg., Pittsburg, Pa. tf

FOR SALE

See first column for rates

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See first column for rates

IMMEDIATE DELIVERY

One modern 70-ton Vulcan Giant "C" Steam Shovel, 3 yd. dipper, three sets of engines. Built in 1903, used only three months; absolutely as good as new for all practical purposes.
One Model "G" Marion, 60-ton, 2½ yd. dipper, independent engines. Used only two seasons. First-class order.
One Little Giant Modern Vulcan Traction 1¼ yd. dipper, engines on crane. Completely overhauled.
One 55-ton Crane Type Bucyrus, 1¼ yd. dipper; friction crane completely overhauled.
Also others.

LOCOMOTIVES

One 9x14 36 in. gauge Porter Saddle Tank.
One 28-ton 4 wheel Baldwin Switcher, separate tender.
One 20 x 24 Consolidation Locomotive.

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Cylinders, 10 x 12-in., steam brake. Overhauled at cost of $1,000 to boiler and machinery and not used since. Bought for emergency. Located at Rondout, N. Y.

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One 20-ton Capacity Guy Derrick

complete with guys, necessary wire rope, for 8 part topping lift and 6 part hoisting lift, together with blocks and fixtures and 14-ft. diameter bull wheel, 50-ft. mast and boom together with one Lambert 8½ x 10 double cylinder double drum hoisting engine with boiler complete with Lambert patent swinging gear. This outfit has been used about a month and is as good as new.

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H. E. 22

Engineering News, New York

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LOCOMOTIVES, 36-inch GAGE

1 8x14 Porter Dinkey.
1 7x10 Baldwin Dinkey.
1 12x18 Mason Forney type.
2 11x16 24-ton Baldwin American type.
1 14x20 26-ton Grant American type.
1 12x18 24-ton Baldwin Mogul.
1 12x18 22-ton Porter, 6-driver saddletank, with pair trailers.
1 Marion right-hand Side Plow.
1 Center Plow.

STEAM SHOVELS

1 65-ton, 2½-yd. Bucyrus.
1 1¼-yd. Industrial. 2 1¾-yd. Otis.

LOCOMOTIVES, STANDARD GAGE

1 20 x 24 54-ton Baldwin Consolidation.
2 19 x 24 50-ton Baldwin Moguls.
1 15 x 18 29-ton 6-wheel Saddletank.
1 14 x 22 30-ton American type.
1 16 x 24 35-ton Danforth & Cook American type.
1 7 x 12 13-ton Shay geared.
20 18 x 24 45-ton, 10 wheelers.

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35 5-yd. Western, steel frame, standard gage.
75 50,000 cap. Flats, with Air Brakes.
50 3 and 4-yd. 36-in. gage.
Coaches, Flats and Gondolas.

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FOR SALE

See first column for rates

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6 10 x 16 Porter Locomotives

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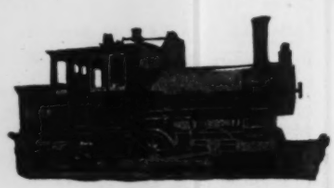

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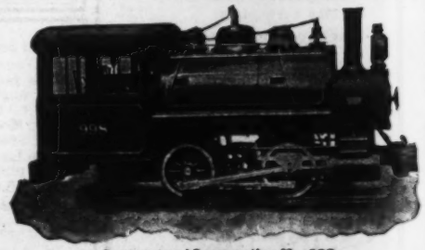

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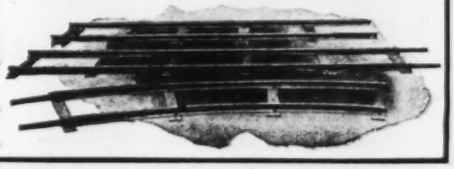

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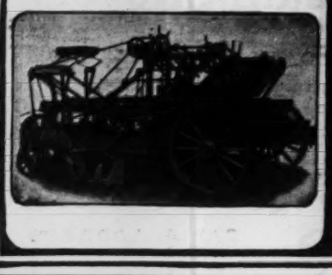

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One standard Bucyrus, 1 yard, 45-ton, thoroughly overhauled, first-class condition, ready for immediate delivery and service. $200 to $300 worth of extras. Buffalo, N. Y., delivery.

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One 70-ton Vulcan, right price.

One Marion, style "C" one yard dipper, first-class condition, right price.

Little Giant Vulcan shovel, A1 shape, practically new, crowding engines.

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One 12-ton Kelley, late model. Good as new.

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BEVERLEY B. MUNFORD,
LILBURN T. MYERS,
Special Commissioners.

In the Clerk's Office of the Chancery Court, Richmond, Virginia.

S. H. HAWES & CO., who sue, etc.
vs.
WILLIAM R. TRIGG COMPANY et als.

I hereby certify that the bond required of the above mentioned Beverley B. Munford and Lilburn T. Myers, Special Commissioners, appointed by the decree in the aforesaid suit entered on the 23d of May, 1905, has been duly executed.

(Signed) CHARLES Q. SAVILLE, Clerk.

25-2t

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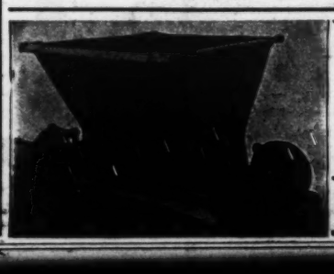

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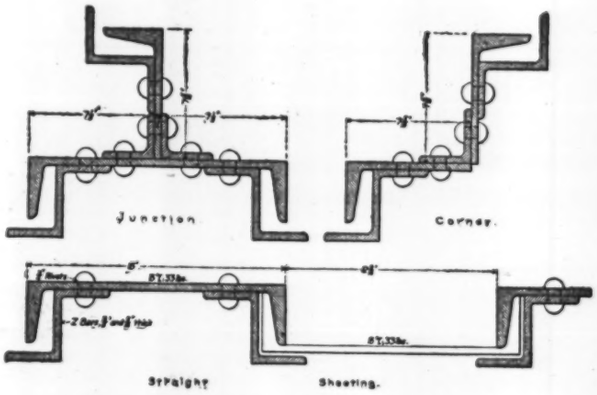

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Send for Catalogue
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Write us if you have any waterproofing to be done
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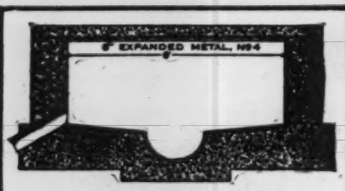

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BRICK PAVING.

Helena, Ark., June 12, 1905.

Sealed proposals will be received by the Paving Committee of the Cherry St. property owners and the Board of Public Affairs, both of the City of Helena, Arkansas, until noon, July 1, 1905, for the construction of about 7,948 square yards of brick pavement on concrete foundation, and for the excavation of about 2,500 cubic yards of compact material. Work to be begun by July 20, and completed October 1, 1905, under the supervision of Francis H. Wright, City Engineer.

Plans and specifications on file with the City Engineer, and at the offices of Engineering News, St. Paul Building, New York, and Monadnock Block, Chicago, Ill.

Certified check for $1,000 must accompany all proposals.

Right reserved to reject any and all bids.

R. E. CHEW, JR.,
Chairman.

24-3t

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PLANS AND SPECIFICATIONS will be on file, on and after June 12, at the offices of the Engineers, The Roberts & Abbott Co., No. 1123 Schofield Bldg., Cleveland, Ohio, and No. 801 Maryland Trust Bldg., Baltimore, Md.

Copies will NOT be forwarded.

BIDS will be received at the Baltimore office addressed: The Roberts & Abbott Co., and marked "Proposal for the Washington, Baltimore & Annapolis," until 10 a. m., Friday, July 7, 1905.

Data sheets for bidding will be furnished those who go over the route, or otherwise make it evident that they will bid.

Preferably call at the BALTIMORE Office.

24-4t

COMMISSION FOR THE CONSTRUCTION OF THE BUILDING FOR THE GOVERNMENT OF THE DISTRICT OF COLUMBIA. —Washington, D. C., May 23, 1905.—Sealed proposals will be received at this office until 2 o'clock p. m. on Saturday, July 1st, 1905, and then opened, for the Superstructure for the Municipal Building. Information on application to Captain Chester Harding, Corps of Engineers, U. S. A., Supervisor of Construction, Municipal Building, Washington, D. C. Bids must be accompanied by certified check for fifteen thousand ($15,000.00) dollars. LESLIE M. SHAW, Secretary of the Treasury, HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners of the District of Columbia, Municipal Building Commission. 21-6t

DEPARTMENT OF THE INTERIOR, Office of Superintendent, U. S. Capitol Building and Grounds, Washington, D. C., May 31, 1905.—Proposals (in duplicate) for cut stone work for the exterior facades and the court walls of the Office Building, United States Senate, will be received and opened at the above office at 2 o'clock P. M. on Thursday, June 29, 1905, in the presence of persons desiring to attend. Plans and specifications are now ready for issue, and will be furnished upon receipt of a check for $50.00, payable to the Superintendent U. S. Capitol Building and Grounds, as a guarantee for their return. Checks will be returned upon the receipt of plans and specifications. A suitable surety bond, certified check, or cash will be required as a deposit with the bid, and a subsequent bond will be required for the faithful performance of the contract, all of which is explained in the specifications. The right is reserved to reject any and all bids and to waive any informality in any bid. ELLIOTT WOODS, Superintendent U. S. Capitol Building and Grounds. Approved: E. A. HITCHCOCK, Secretary. 23-4t

U. S. ENGINEER OFFICE, Mobile, Ala., June 13, 1905.—Sealed proposals for dredging in Mobile Harbor, Ala., will be received at this office until 11 o'clock A. M., July 14 1905, and then publicly opened. Specifications, blank forms and all available information furnished on application. W. E. CRAIGHILL, Major, Engrs. 25-4t

PROPOSALS FOR VALVES, STEAM WHISTLES, WATER GAGES, STEAM GAGES, GAGE COCKS, WATER COLUMNS, ENGINE APPLIANCES, PIPE AND PIPE FITTINGS, RATCHET DRILLS, WRENCHES, STOCKS AND DIES, TAPS, PIPE VISES, HACK SAWS, MACHINE BOLTS, WASHERS, NUTS, STEEL BRUSHES, AXES, HAMMERS, HAMMER AND AXE HANDLES, EMERY CLOTH, HINGES, OILERS, ETC. Office Isthmian Canal Commission, Washington, D. C., June 16, 1905.—Sealed proposals, in triplicate, will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., July 17, 1905, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and full information may be obtained from this office, or offices of Asst. Purchasing Agent, 24 State St., N. Y. City, or Asst. Purchasing Agent, at Custom House, New Orleans, La., and blanks may be had at Chamber of Commerce, San Francisco, Cal., and Commercial Club, Mobile, Ala. D. W. ROSS, General Purchasing Officer. 24-4t

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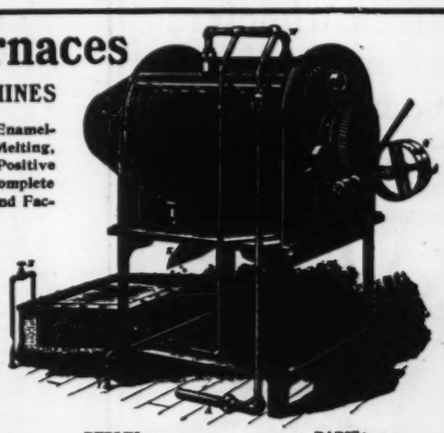

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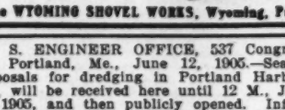

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U. S. ENGINEER OFFICE, 537 Congress St., Portland, Me., June 12, 1905.—Sealed proposals for dredging in Portland Harbor, Me., will be received here until 12 M., July 12, 1905, and then publicly opened. Information furnished on application. W. M. BLACK, Maj., Engrs. 24-4t

U. S. ENGINEER OFFICE, Jacksonville, Fla., June 1, 1905.—Sealed proposals for dredging and removal of rock in Hillsboro Bay, Florida, will be received here until 12 o'clock noon, July 1, 1905, and then publicly opened. Information furnished on application. FRANCIS R. SHUNK, Major, Engrs. 23-4t

U. S. ENGINEER OFFICE, Baltimore, Md., June 3, 1905.—Sealed proposals for dredging rivers and harbors on east shore of Chesapeake Bay, Md., will be received here until noon, July 5, 1905, and then publicly opened. Information furnished on application. R. L. HOXIE, Lt.-Col., Engrs. 23-4t

U. S. ENGINEER OFFICE, Wilmington, Del., June 6, 1905.—Sealed proposals for dredging Mispillion River, Del., will be received here until 11 a. m., July 6, 1905, and then opened. Specifications, blank forms, etc., furnished on application. C. A. F. FLAGLER, Capt., Engrs. 23-4t

HARBOR WORK, VALPARAISO, CHILE.

Works amount £2,500,000 ($12,500,000).

On the 2d of April, 1906, bids will be open in Santiago (Chile) for the construction of docks and improvement of the harbor of Valparaiso.

See plans and specifications in Washington, D. C., Chilean Legation, 1228 17th Street; in New York, Consulate General, 135 W. 11th Street.

Plans and specifications may also be seen at the office of Engineering News, New York and Chicago. 17-39t

REINFORCED CONCRETE.

Florida East Coast Railway.

Sealed proposals will be received until 3 o'clock P. M., July 31st, at the office of J. C. Meredith, Constructing Engineer, F. E. C. Ry., Miami, Fla., for the construction and completion of reinforced concrete arch work involving the expenditure of about 80,000 cubic yards of concrete on the proposed Key West Extension of the F. E. C. Ry., on the opening between Long Key and Conch Key.

Specifications, forms of proposal and particulars may be obtained on application at the office of the Constructing Engineer, where plans may be inspected.

Each bid must be accompanied by a certified check, payable to the Florida East Coast Ry. Co., for 2% of the contract price, as a guarantee that the bidder will, if successful, promptly execute satisfactory contract and furnish bond in the sum of 20% of the contract price for the faithful performance of the work. The right is reserved to reject any and all bids and waive technical defects if the interests of the Railway Company require it.

Bidders are invited to be present. 25-6t

PROPOSALS FOR MISCELLANEOUS SUPPLIES.—Office, Isthmian Canal Commission, Washington, D. C., June 14, 1905.—Sealed proposals, in triplicate, will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., July 10, 1905, at which time they will be opened in public, for furnishing Sanitary Fixtures and Roughing Material, Water Pipe and Pipe Fittings, Lead Pipe, Solder, Pig Lead, Oakum, Bolts, Washers, Spikes, Nails, Creosote Oil, Wire Rope, Manila Rope, Cotton Waste, Pitch, Cotton Duck, Rubber Sleeves, Tackle Blocks, Timber Dolleys, Carrying Hooks, Saws, Wheel Barrows, Shovels, Switch Stands, Hydraulic Jacks, Jack Screws, Pile Driver Hammers, etc. Blanks and full information may be obtained from this office, or offices of Asst. Purchasing Agent, 24 State St., N. Y. City, or Asst. Purchasing Agent, at Custom House, New Orleans, La., and blanks may be had at Chamber of Commerce, San Francisco, Cal., and Commercial Club, Mobile, Ala. D. W. ROSS, General Purchasing Officer. 24-4t

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Whether or not there is danger of a flush of water from priming boilers, excessive condensation or pockets in the piping, getting into the engine cylinder and wrecking the engine, you should have a Cochrane Steam Separator in the line running to your engine for two reasons: First, the insurance you can get for next to nothing—some time you might get a dose of water from the boiler. Second, the greater economy you can get out of the same steam.

Steam containing entrained moisture cannot do as much work expansively as dry steam. A Cochrane Steam Separator will take out the moisture coming with the steam—giving absolute protection against any large flush of water that may occur—and will enable you to utilize your steam to the best possible advantage—which means economy of steam, economy of coal, economy of money.

Again, water in the steam washes the oil from the cylinder surfaces and prevents proper lubrication, besides wasting the oil. A Cochrane Steam Separator, by furnishing dry steam to your engine, will enable you to obtain better cylinder lubrication with less oil.

The installation of a Cochrane Steam Separator is a paying investment because the economies obtained will more than cover the interest on the cost of the Separator, giving you your engine protection absolutely free.

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MACADAM ROAD.

Sealed proposals for building the first section of the Allentown and New Egypt stone road, 3.36 miles long, and running from Allentown to Davis station, in Upper Freehold township, will be received by the Board of Chosen Freeholders of the county of Monmouth, N. J., at the Court House, in Freehold, on Wednesday, July 12, 1905, at 12 o'clock noon, and then and there publicly opened and considered. Specifications and all information regarding said construction may be had by applying to Peter Forman, Engineer, at his office, Manalapan, N. J., or at the County Collector's office at the Court House, Freehold, N. J., or of Joseph Holmes, Chairman of the Road Committee, Cream Ridge, N. J.

Each bidder must accompany his bid with a certified check for one thousand dollars, made payable to the Director of the Board, as a guarantee if said work is awarded to him. He will enter into a contract with the said Board for the due and proper performance of the same, which contract must be executed together with the bond of the successful bidder, within the term of thirty days from the time of awarding the contract, in the penal sum of at least the estimated cost of the road, with two or more sureties, freeholders, or a good and sufficient Surety or Trust Company, all to be first approved by the Director of the Board and conditioned for the proper performance of the work strictly according to the plans and specifications. The Board of Freeholders reserves the right to reject any or all bids.

JOHN GUIRE,
Director.
Dated June 14, 1905. 25-3t

U. S. ENGINEER OFFICE, Young Building, Honolulu, T. H., June 20, 1905.—Sealed proposals for dredging in Honolulu Harbor, Hawaii, will be received here until 12, noon, July 20, 1905, and then publicly opened. Information furnished on application. J. R. SLATTERY, 1st Lieut., Engrs. 25-6t

CONCRETE DAM, RACEWAY, ETC.

Charlestown, W. Va.

Sealed proposals for the construction of a concrete Dam, Raceway and Wheelpits on the Shenandoah River, near Charlestown, W. Va., for the proposed Hydro-Electric Plant, will be received at Winchester, Virginia, by the Winchester & Washington Electric Ry. Co. on a day to be named by the engineer in charge. A certified check for $500, made payable to S. H. Hansbrough, President, in accordance with the specifications, shall accompany each bid, and the company reserves the right to reject any or all bids.

Only contractors of known ability in such work and who are fully equipped for it will be invited to bid.

This advance notice is given to save time, and contractors are urged to visit the site now while the engineer is there.

S. H. HANSBROUGH,
President.
N. WILSON DAVIS, Engineer.
26-2t Charlestown W. Va., R. F. D. No. 1.

SEWERAGE SYSTEM.

Laurens, S. C.

Sealed proposals will be received by the Board of Sewer Commissioners of the City of Laurens, S. C., until 5 o'clock P. M., July 25th, 1905, for constructing a sewerage system in the City of Laurens, S. C., and furnishing the materials for same.

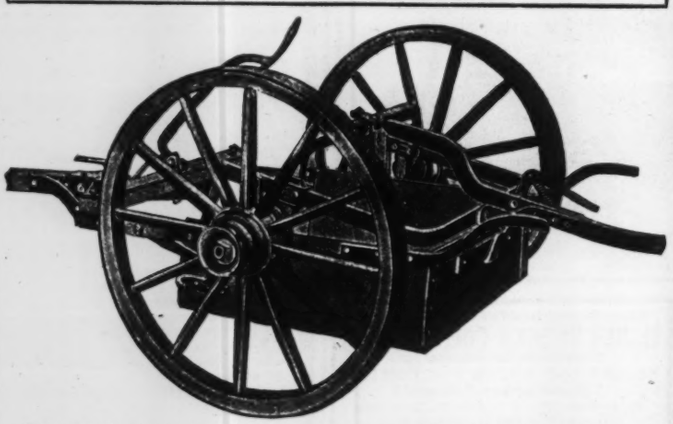
Works will embrace approximately seven miles of pipe sewers, from 8 to 18 inches in diameter.

Plans and specifications will be on file, and may be seen at the office of the Secretary, and copies of specifications, forms, etc., may be obtained from the Engineer.

The right is reserved to reject any or all bids.

W. R. RICHEY, Chn.
C. H. ROPER, Secy.
Engineer:
J. L. LUDLOW,
Winston, N. C. 26-3t

All Standard Western Wheelers Now Supplied With Spindle Sleeve and Sand-Collar Combined, With Patent Safety Spring Back Latch



Back Hook cannot unlatch on way to dump. Sleeve slips on spindle, can be turned, giving double wear; no blacksmith work repairing spindles; a perfect dirt excluder; these, beside the sterling qualities that have made and so long maintained the reputation of Western Wheeled Scraper.

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APPROXIMATE QUANTITY 5,000 TONS.
Kansas City, Mo.

Sealed proposals will be received by the Board of Public Works, acting as Water Commissioners, at their office in the City Hall, Kansas City, Missouri, until 2 o'clock p. m., June 30, 1905, for the manufacture, furnishing, and delivery f. o. b. cars at Kansas City, the annual supply of Cast Iron Pipe and Special Castings, in accordance with plans and specifications on file in the office of the Water Department.

No proposal will be considered unless accompanied by cash or a certified check made payable to the City Comptroller, in the sum of Five Thousand Dollars ($5,000), as a guarantee that, should the contract be awarded to such parties, they will enter into contract as required by law.

The Board of Public Works does not bind itself to accept the lowest or any bid offered, and reserves the right to reject any or all bids, or to waive any informality in the bids, when it seems to be to the interest of Kansas City so to do.

EVERETT ELLIOTT,
Secretary,
24-3t Board of Public Works.

Specifications are on file at the office of Engineering News, 220 Broadway, New York.

WATER-WORKS.

Columbia, S. C.

Sealed proposals will be received by the Board of Water Commissioners of the City of Columbia, S. C., until 10 o'clock A. M., Tuesday, Aug. 8th, for constructing a waterworks system in the City of Columbia, S. C., and for furnishing the materials for the same.

Work will embrace approximately 12 miles of cast-iron pipe, from 6 to 24 inches diameter, stand pipe, turbine water wheels, power pumps, centrifugal pumps, filtration plant, pumping engines, boilers, engines, power station, hydrants, gate valves and other appurtenances.

Plans and specifications will be on file, and may be seen at the office of the Clerk of the Board, and copies of specifications, forms of proposals, etc., may be obtained from the Engineer after July 1st.

The right is reserved to reject any or all bids.

J. W. BABCOCK, Chn.,
WM. BARNWELL,
W. B. BURNEY,
A. C. HASKELL,
CHAS. NAREY,
Board of Water Commissioners.
Engineer:
J. L. LUDLOW,
Winston, N. C. 26-4t

OFFICE PUBLIC BUILDINGS AND GROUNDS, Washington, D. C., June 20, 1905.—Sealed proposals, in duplicate, will be received here until 2 P. M., July 20, 1905, for furnishing and delivering 7,800 tons more or less, of broken stone for construction roadways in Potomac Park. Information can be obtained here. CHAS. S. BROMWELL, Col. 25-4t

U. S. ENGINEER OFFICE, Charleston, S. C., June 20, 1905.—Sealed proposals for removal of wreck of schooner "Kate V. Aitken," Charleston Harbor, will be received at this office until 12 o'clock noon, July 20, 1905, and then publicly opened. Information on application. G. P. HOWELL, Capt. Engrs. 25-4t

ENGINEER OFFICE, U. S. Army, Room 2, Custom House, Norfolk, Va., June 20, 1905.—Sealed proposals for dredging Waterway from Norfolk Harbor, Va., to Albemarle Sound, N. C., will be received here until 12 M. July 20, 1905, and then publicly opened. Information furnished on application. E. EVELETH WINSLOW, Capt., Engrs. 26-1t 28-1t

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., June 9, 1905.—Sealed proposals will be received at the office of the Supervising Engineer, United States Reclamation Service, 1108 Braly Building, Los Angeles, California, until 2 o'clock p. m., August 17, 1905, and thereafter opened, for the construction of about 12 miles of dike, involving excavation of about 445,000 cubic yards of earth, and clearing 125 acres for the reclamation of Yuma Valley, Arizona. Specifications, forms of proposals and plan may be obtained from the Chief Engineer of the Reclamation Service, U. S. Geological Survey, Washington, D. C., from the Supervising Engineer, Los Angeles, California, and from the Engineer of the Reclamation Service, Yuma, Arizona. Each bid must be accompanied by a certified check for three (3) per cent. of the amount of the bid, payable to the order of the Secretary of the Interior, as a guaranty that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of 20 per cent. of the contract price for the faithful performance of the work. It must also be accompanied by the guaranty of responsible sureties to furnish bond as required, if the bid be accepted. The right is reserved to reject any or all bids, to accept one part and reject the other, and to waive technical defects, as the interests of the Service may require. Bidders are invited to be present. Proposals must be marked: "Proposals for the construction of dikes, Yuma project." E. A. HITCHCOCK, Secretary. 25-6t

Yale & Towne Chain Blocks

should replace rope tackle in many lifting jobs. Rope tackle is not reliable unless new—and even then a rope is liable to break because of a weak strand.

Yale & Towne Chain Blocks Make Lifting Easy

besides making it absolutely safe. They save both time and work.

Used by contractors for lifting safes, beams, and heavy things of all kinds.

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BIJUR "HIGH-DUTY" BATTERY
Mechanically Strong and Chemically Correct
General Storage Battery Company
42 Broadway, New York

SEWERS.

Mamaroneck, N. Y.

Sealed proposals for the construction of Sewers will be received by the Board of Trustees of the Village of Mamaroneck, Westchester County, N. Y., at the Village Rooms, until 8.30 o'clock p. m., the twelfth day of July, 1905.

Approximately four miles of sewers are to be laid, including the trunk sewer.

Each bid must be accompanied by a certified check for a sum equal to five (5) per cent. of the amount of the bid.

A Surety Company bond for an amount equal to fifty (50) per cent. of the bid will be required.

The Board of Trustees reserves the right to reject any and all bids.

Plans and specifications may be seen and bidding forms obtained at the office of the Village Clerk, Mamaroneck, N. Y., or at the office of the Engineer, John M. Farley, No 5 Court street, White Plains, N. Y.

DANIEL WARREN,
President.
CHARLES W. BUCKTER,
Clerk. 25-3t

ELECTRIC LIGHT AND WATER WORKS PLANT.

Arcanum, O., June 20, 1905.

Sealed proposals will be received by the Board of Trustees of Public Affairs July 6, 1905, until 12 o'clock noon, for the construction of Water-Works and Electric Light plant at Arcanum, Ohio.

Plans and specifications furnished on application by the Board of Trustees of Public Affairs at Arcanum, Ohio, or T. C. Hefel, C. E., Muncie, Ind.

W. W. HADFIELD,
26-2t Pres. of the Board.

Plans and specifications may be seen at the office of Engineering News, 220 Broadway, New York.

U. S. ENGINEER OFFICE, 508 Federal Bldg., Chicago, Ill., June 23, 1905.—Sealed proposals for dredging in Chicago Harbor, Ill., will be received here until noon, July 25, 1905, and then publicly opened. Information on application. WM. H. BIXBY, Lt.-Col., Engrs. 26-4t

For other Proposal Advertisements see pages 35, 36, 37, 38, 39, 40, 41, of Advertisements and Construction News page 250

OUR BOOKLET

"From Underfoot To Overhead"

gives a clear description of the many processes through which a piece of iron ore must pass before it becomes the base of our

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It also contains tables and information which will prove invaluable to every man who writes specifications or lays a roof.

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To know a little more about "The Terne which turns the elements," will be invaluable to you, for MF is the oldest of Old Style Terne Plates and deserves your best consideration.

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AUTOMATIC SIPHON FLUSHING DEVICE

Special Design, Man-hole and Flush-tank Covers

Get our prices on Sewer Castings

SEWERAGE FOR PRIVATE RESIDENCE

The bacterial purification of sewage provides a means whereby any one may, at a small cost, have a complete sewer system.

Write for circular giving full information and cost of plant.

The De La Hunt Flush-tank Co.

CEDAR RAPIDS, IA.

STORM WATER SEWERS.

Sealed proposals for constructing storm water sewers will be received by the Committee on Surface Sewerage, at the office of the Town Clerk, Westfield, Mass., until 12 o'clock M. of July 17th, 1905, and at that time will be publicly opened and read.

The work includes about 142' of 30" brick sewer and 1,360 ' of 24", 350' of 20", 1,805 of 18", 35' of 15", 600' of 12", 200' of 10" and 600' of 8" pipe sewer.

Each bid must be accompanied by a certified check for five hundred dollars ($500.00)

Plans can be seen and blank forms of proposals and contracts obtained at the office of the Town Engineer.

The Committee reserves the right to reject any and all bids, or to accept any bid should it deem it for the interests of the Town of Westfield so to do.

RICHARD J. MORRISSEY,
Chairman of Committee.
JAMES H. CLARK,
Secretary.
OREN E. PARKS,
Town Engineer.

Westfield, Mass., June 21, 1905. 26-1t

SEWERAGE SYSTEM.

Columbus, Ind.

The Common Council of the City of Columbus, Indiana, will receive sealed bids on the 6th day of July, 1905, for the construction of one-half mile of main sewer and laterals thereto. Estimated cost, $8,900.00.

GEO. VORWALD,
City Clerk.
WM. H. RIGHTS,
Civil Engineer. 26-1

PROPOSALS FOR BARGES.—Office Isthmian Canal Commission, Washington, D. C., June 27, 1905.—Sealed proposals, in triplicate, will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M., July 27, 1905, at which time they will be opened in public, for furnishing 11 steel barges. Blanks and full information may be obtained from this office, or offices of Asst. Purchasing Agent, 24 State St., N. Y. City, or Asst. Purchasing Agent, at Custom House, New Orleans, La., and blanks may be had at Chamber of Commerce, San Francisco, Cal., and Commercial Club, Mobile, Ala. D. W. ROSS, General Purchasing Officer. 26-4t

STREET PAVING.

Shreveport, La.

Sealed proposals will be received by the City Comptroller of Shreveport, La., at the City Hall, up to 6 o'clock p. m., August 8th, 1905, for the paving of the following streets in the City of Shreveport:

No.		Square yards.
1.	Caddo Street, from Market to Edwards, 40 feet wide	1,833
2.	Edwards, from Caddo to Travis, 40 feet wide	2,881
3.	Marshall, from Travis to Fannin, 40 feet wide	1,480
4.	McNeil, from Travis to T. & P. Ry., 40 feet wide	5,004
5.	Edwards, from Cotton to Crockett, 36 feet wide	1,338
6.	Cotton, from Edwards to Marshall, 28 feet wide	1,000
7.	Nutt, from Jordan to Stoner, 36 feet wide	1,686
8.	Creswell, from Jordan to Stoner, 36 feet wide	2,748
9.	Lake, from Market to Commerce, 40 feet wide	3,013
10.	Fairfield, Jordan to Murphy, 36 feet wide	2,577
11.	Travis, Common to Beauregard, 40 feet wide	1,824
12.	Margaret Place, 700 feet in length from Fairfield	3,111
13.	Grand Avenue, Texas to Reynolds, two 20-foot widths	2,880
14.	Fannin Street, end at Commerce to Strand Street, 40 feet wide	2,384
15.	Travis Street, end at Commerce to Strand, 40 feet wide	785

The paving to be of asphalt, brick or pavement similar to Bitulithic, or Bitulithic, as per plans and specifications on file in office of City Engineer.

Each street is to be bid on separately with a five-year maintenance bond, said bond to be 10 per cent. of amount of contract as let; and all bids must be made on and in accordance with blanks furnished by City Engineer and improvement committee. A certified check equal to 10 per cent. of amount of bid must accompany each bid as guarantee that bidder, if successful, will furnish bond and enter into contract as per bid.

A bond equal to 50 per cent. of contract price will be required of successful bidders as a bond for faithful performance and completion of the work, and as surety for payment of all just material and labor claims.

The city reserves the right to reject any and all bids.

26-6t C. G. RIVES, Comptroller.

GRAVITY WATER-WORKS.

Washington Water Supply Co.,
Slatington, Pa.

Sealed proposals will be received at Slatington up to 2 o'clock P. M., on the 11th of July, 1905, for furnishing the materials and doing the work necessary to construct a Gravity System of water-works for the Washington Water Supply Co.

It embraces approximately:

24,000 ft. of 12-inch pipe.
3,300 ft. of 4-inch pipe.
10 double nozzle fire hydrants.
20 12" and 4" valves and boxes.
1,300,000-gal. reservoir.

Each proposal must be accompanied by a certified check for ($500) Five Hundred Dollars, made payable to Henry W. Bloss, Treasurer of the Washington Water Supply Co. Such check to be forfeited by the successful bidder in case he refuses to sign the contract for the work bid upon within ten (10) days of the time the same is awarded to him.

Plans may be seen and specifications and forms of proposals obtained at the office of the Engineer at Sellersville, Pa., or at the office of H. W. Hankee in Slatington, Pa.

The Washington Water Supply Co. reserves the right to reject any or all bids for the work.

IRA SEIDLE, Secy.,
Lehighton, Pa.
WARREN F. CRESSMAN, Eng.,
26-2t Sellersville, Pa.

PAVING.

Bids will be received by the Committee on Streets and Sidewalks of the Common Council, Bridgeport, Conn., until Monday evening, July 17, 1905, at 8 o'clock, for the laying of about 13,000 square yards of permanent pavement. Form of bid and specifications may be obtained from the City Surveyor, Police and Charities Building.

All bids to be addressed "Committee on Streets and Sidewalks, Bridgeport, Conn., E. T. Buckingham, City Clerk, City of Bridgeport."

E. T. BUCKINGHAM,
Clerk of Committee.

Bridgeport, Conn., June 24, 1905. 26-2t

BY TRAIN LOADS

We have been shipping one train load after another of Watson Dumping Wagons this month, and there seems to be no end to the demand. Orders so far this year eclipse previous output for an entire year.

Side by side with other wagons in contract work, Watson Dumping Wagons do more work and stand the racket best.

Watson Dump Wagons

Are in the lead because they have the strength needed, because they wear for years, because they keep out on the job, and not in the repair shop.

First cost no greater than it should be; operating cost lowest of all. The story of superiority is told in our catalog.

Get a copy. Postal card will get it.

Watson Wagon Co.

CANASTOTA, N. Y.

SEND FOR ESTIMATES

TENTS

Stable Tents, Wall Tents
Paulins, etc.
For Railroad Contractors

THE MURRAY CO.
59 and 61 West Washington St., CHICAGO

PRESSURE AND GRAVITY FILTERS
FEED WATER SOFTENERS

HUNGERFORD-ELFRETH SYSTEMS

CORRESPONDENCE SOLICITED

PHILADELPHIA WATER PURIFICATION CO.
1702 North 12th Street, Philadelphia, Pa.

IF YOU ARE IN THE MARKET

for materials, no matter how small, not advertised in Engineering News, write us stating your wants, and we

WILL REFER YOU TO THE RIGHT FIRMS

THE BUNTING CONSTRUCTION CO.

Vernon Avenue and 14th Street, Long Island City, N. Y.

GENERAL CONTRACTORS FOR

CONCRETE STEEL CONSTRUCTION

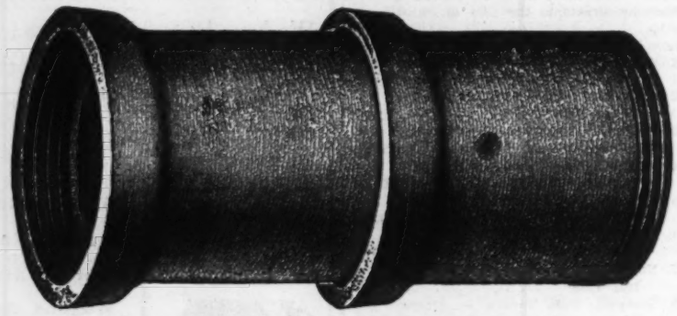
PITTSBURGH FILTER MFG. CO.

PRESSURE FILTERS WATER SOFTENING PLANTS
GRAVITY FILTERS

Farmers' Bank Bldg. Pittsburgh, Pa.

Further Proposal Advertisements see pages 35, 36, 37, 38, 39, 40, 41, of Advertisements and Construction News page 250

American Sewer Pipe Company



Largest Manufacturers of Sewer Pipe in the World. PITTSBURG, PA.

A CRIBBING DEVICE

For SEWER and All Kinds of DEEP EXCAVATING

A great saving of labor and money to Contractors.

It will last for years and can be used to go to any depth without any danger of caving.

Full particulars with circulars and prices furnished upon request

United States Portable Cribbing Co

Office: 34 Lackawanna Avenue, SCRANTON, PA.

WATER FILTERS

Pressure and Gravity Systems for all Purposes

MUNICIPAL PLANTS A SPECIALTY

ROBERTS MANUFACTURING COMPANY

PHILADELPHIA, PA.

INTERCEPTING SEWER.

Utica, N. Y.

Sealed proposals will be received by the Mayor of the City of Utica, N. Y., until Friday evening, July 21, 1905, at 8 o'clock, for the construction of an intercepting sewer of about five thousand (5,000) feet in length, with an average inside diameter of about eleven (11) feet, to be constructed of concrete, brick or stone. Proposals shall state a price for each form of construction.

Each proposal must be accompanied by a certified check upon some national or state bank or trust company equal to five (5) per cent of the total amount of the proposal, payable to the City Treasurer of Utica, N. Y., as a guarantee that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of One Hundred Thousand ($100,000) Dollars for the faithful performance of the work.

The right is reserved by the Common Council of the City of Utica to reject any and all proposals.

Proposals must be marked "Proposals for Intercepting Sewer."

Plans and specifications of the aforesaid work are on file in the office of the City Clerk, where they may be examined. Upon the deposit of Five ($5) Dollars with the City Clerk, copies thereof and blank proposals will be furnished upon application. The deposit will be returned to all who submit bids.

The certified checks of the unsuccessful bidders will be returned within forty-eight (48) hours after the awarding of the contract.

Dated, Utica, N. Y., June 9, 1905.

24-5t J. A. CANTWELL, City Clerk.

U. S. ENGINEER OFFICE, Pittsburg, Pa., June 2, 1905.—Sealed proposals for building and erecting 6 bear-trap gates in the Ohio River, Pa., 2 each at Dam No. 3, at Glenosborne, Dam No. 4, near Legionville, and Dam No. 5, near Freedom, about 11, 18 and 25 miles, respectively, below Pittsburg, Pa., will be received here until 12 M., July 3, 1905, then publicly opened. Information furnished on application. WM. L. SIBERT, Maj., Engrs. 23-4t

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U. S. ENGINEER OFFICE, Montgomery, Ala., May 31, 1905.—Sealed proposals for dredging "Luk Channel," Apalachicola Bay, Fla., and Carrabelle Bar, Fla., will be received here until noon, July 1, 1905, and then publicly opened. Information furnished on application. J. B. CAVANAUGH, Capt., Engrs. 23-4t

PORTLAND, ME., BRIDGE DISTRICT.

NOTICE TO CONTRACTORS.

Sealed bids, plans and specifications for building a bridge across Fore River, between the cities of Portland and South Portland, Maine, will be received by the Commissioners of the Portland Bridge District at City Hall, Portland, Maine, until Saturday, July 8, 1905, at 11 o'clock a. m., when they will be publicly opened and read.

Each bid must be signed by the bidder with full names and addresses, and be enclosed with the plans and specifications in a sealed package marked "Bid, Plans and Specifications for Building Vaughan's Bridge," and addressed to James L. Dyer, Treasurer of the Portland Bridge District, City Hall, Portland, Maine. No bid will be allowed to be withdrawn after it has been deposited.

Each bid must be accompanied by a properly certified check for the sum of seven thousand five hundred (7,500) dollars, payable to the order of the Treasurer of the Portland Bridge District; and a bond of some responsible surety company, approved by said Treasurer, in the sum of one-fourth of the amount of the bid, will be required of the successful bidder for the faithful performance of the contract.

The bridge is to be approximately 1,348 feet in length, the roadway to be 40 feet wide in the clear between trusses, and is to have two sidewalks, each 6 feet wide in the clear; and is to include a draw, with either one or two openings, for the passage of vessels.

Bids, plans and specifications for three different styles of bridges will be considered, viz.: a pile bridge with a steel draw; a steel bridge with a steel draw; and a concrete bridge with a steel draw. In each case the bid, plans and specifications must include all foundations and fender piers, and the removal of the present Vaughan's Bridge and the maintenance of a navigable channel during the performance of the work proposed.

General plans and profiles of the site, specifications, and blank forms upon which bids must be made, and further information, may be obtained on and after Saturday, June 17, 1905, at the office of Geo. N. Fernald, City Hall, Portland, Maine.

The Commissioners reserve the right to reject any or all bids, should they deem it for the interest of the District so to do.

Per order of the Commissioners of the Portland Bridge District.

JAMES P. BAXTER,
GEORGE H. WEEKS,
J. NELSON DELANO,
JAMES L. DYER,
GEO. N. FERNALD,
Commissioners of the Portland Bridge District.

Portland, Maine, June 12, 1905. 24-4t

U. S. ENGINEER OFFICE, Mobile, Ala., June 3, 1905.—Sealed proposals for building Dam, Abutment and Guard Cribs at Lock No. 1, McGrews Shoals, Tombigbee River, Ala., will be received at this office until 11 a. m., Monday, July 3, 1905, and then publicly opened. Information furnished on application. W. E. CRAIGHILL, Major, Engrs. 23-4t

LAWRENCE AVENUE CONDUIT.

Department of Public Works,
Chicago, Ill., June 6, 1905.

Sealed proposals will be received by the City of Chicago until 11 a. m., Friday, July 7, 1905, at Room 222, City Hall, for furnishing all labor and material of whatsoever description necessary, and to construct a 16-ft. conduit (tunnel) in Lawrence Ave., from the west line of Beacon St. to a point 1,367 feet west of the west line of Western Ave., making full and complete connection with the 16-ft. conduit now built, including one (1) working shaft, according to plans and specifications on file in the office of the Department of Public Works of said City, Room 220, City Hall.

Proposals must be made out upon blanks furnished at said office, and be addressed to said Department, indorsed "Proposals for Lawrence Ave. Conduit," and be accompanied with $20,000 in money or a certified check for the same amount on some responsible bank located and doing business in the City of Chicago, and made payable to the order of the Commissioner of Public Works.

The Commissioner of Public Works reserves the right to reject any or all bids.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the Commissioner of Public Works of his ability, and that he has the necessary facilities, together with sufficient pecuniary resources, to fulfil the conditions of the contract and specifications, provided such contract should be awarded to him.

Companies or firms bidding will give the individual names as well as the name of the firm with their address.

JOSEPH M. PATTERSON,
24-3t Commissioner of Public Works.

Plans and specifications may be seen at the office of Engineering News, 220 Broadway, New York.

SEWERAGE SYSTEM.

Gettysburg, Pa.

The town of Gettysburg, Pa., will receive and open bids for the construction of a complete sewer system, involving about nine miles of pipe, at 7.30 p. m., July 3, 1905, at the Council Chamber. Plans and specifications may be seen at the office of A. B. Plank, President of Council, or at the office of Mason D. Pratt, Engineer, 18 N. Third St., Harrisburg, Pa.

A. B. PLANK, Chairman,
C. GILBERT,
E. P. WISOTZSKEY,
24-3t Sewer Committee.

U. S. ENGINEER OFFICE, Custom House, Memphis, Tenn., June 17, 1905.—Sealed proposals, in triplicate, for furnishing Steel and Silicon Bronze Wire, Wire Strand, Wire Fence Staples, Manila Rope and Brush and Poles, will be received at this office until 12 o'clock noon, July 17, 1905, and then publicly opened. Information furnished on application. E. W. VAN C. LUCAS, Capt., Engrs. 23-4t

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U. S. ENGINEER OFFICE, Boston, Mass., June 14, 1905.—Sealed proposals for dredging in Chelsea Creek, Boston Harbor, Mass., will be received here until 12 m., July 14, 1905, and then publicly opened. Information on application. W. S. STANTON, Col., Engrs. 24-4t

For other Proposal Advertisements see page 25, 26, 27, 28, 29, 40, 41 of Advertisements and Construction News, page 250.

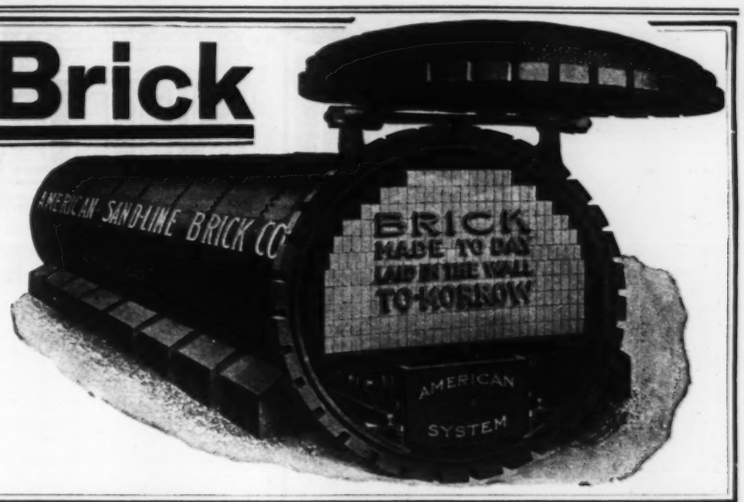
Sand-Lime Brick

THE COMING BUILDING MATERIAL

CHEAP—DURABLE—BEAUTIFUL

Plants Installed and Started Under Iron-Clad Guarantees. No Risk

Our Latest Illustrated Booklet tells all about it. *Sent free*



American Sand-Lime Brick Co.

1307 Great Northern Bldg., CHICAGO, U. S. A.

NEW YORK OFFICE: 39 Cortlandt St.

"Standard"

Porcelain Enameled Ware

has been developed to its present superiority through thirty years of manufacturing experience. We have been engaged in the manufacture of porcelain enameled plumbing fixtures since sanitation was in its infancy in this country and every step has been toward improvement, until today "Standard" Ware is unsurpassed in design, quality and durability.

"Standard" Public Toilet Room.—Design L.

If the sanitary equipment of the buildings under your control is antique and fails to fulfil its purpose of convenience, and protection to the health of the occupants, write for our large 80 page catalogue of "Standard" Modern Sanitary Appliances for Public Institutions, Schools and Factories. It is the standard book of reference on that subject. Sent free on request.

Standard Sanitary Mfg. Co.

Factory Department, Room 1309, Bessemer Building, Pittsburgh, U. S. A.

Robinson Clay Product Co.

Akron, Ohio

Sizes, 2-inch to 36-inch

SEVEN PLANTS

BRANCHES

EASTERN CLAY GOODS CO.
Post Office Square Bldg., Boston.

The ROBINSON CLAY PRODUCT CO., of New York
Flatiron Bldg., New York City

N. A. WILLIAMS CO.
Chamber of Commerce, Chicago

Fire Brick, Portland Cements, Paving Brick, Flue Linings

WARNER-QUINLAN ASPHALT COMPANY

Importers and Refiners of

NATURAL ASPHALTS

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Telephone, 1072

Cable Address
"WARLAN"

New York Office
42 Broadway
Telephone
2523-2524 Broad

U. S. ENGINEER OFFICE, 815 Witherspoon Building, Philadelphia, Pa., June 16, 1905.—Sealed proposals, in duplicate, are invited for dredging in Delaware River, between Finns Point and the south line of Pennsylvania, in sections No. 3, subsection A and B, No. 4, subsection A and B, and No. 5, subsection A. Separate proposals are also invited for dredging in the same localities, with and without completion of, and changing part of the present bulkhead near Edgemoor, Del., and construction of revetment alongside jetty on upper side of Christiana River. Proposals will be received at this office until 12, noon, Monday, July 17, 1905, and then publicly opened. Information furnished on application. J. C. SANFORD, Major, Engrs. 25-4t

U. S. ENGINEER OFFICE, Wilmington, N. C., June 10, 1905.—Sealed proposals for a boiler for U. S. Suction Dredge Cape Fear will be received at this office until 12 o'clock, July 10, 1905, and then publicly opened. Specifications, blank forms and all available information will be furnished on application to this office. E. EVELETH WINSLOW, Capt., Engrs. 24-4t

PROPOSALS FOR PUMPS AND ENGINES.—Office Isthmian Canal Commission, Washington, D. C., June 19, 1905.—Sealed proposals, in triplicate, will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M., July 19, 1905, at which time they will be opened in public, for furnishing a system of pumps and engines for use at Cristobal, Panama, 2 steam pumps and 3 boilers for Colon Water Works, and 2 double cylinder hoisting engines and boilers, complete for use at Cristobal. Blanks and full information may be obtained from this office, or offices of Asst. Purchasing Agent, 24 State St., N. Y. City, or Asst. Purchasing Agent, at Custom House, New Orleans, La., and blanks may be had at Chamber of Commerce, San Francisco, Cal., and Commercial Club, Mobile, Ala. D. W. ROSS, General Purchasing Officer. 25-4t

WAR DEPARTMENT, OFFICE OF THE CHIEF OF ENGINEERS, Washington, D. C., May 15, 1905.—Sealed proposals for furnishing and delivering 36-inch searchlight outfits will be received at this office until 2 o'clock p. m., July 5, 1905 (instead of June 20, 1905, as originally announced), and then publicly opened. Specifications, blank forms, and all available information will be furnished on application to this office. S. W. ROESSLER, Major, Corps of Engineers. 25-2t

U. S. ENGINEER OFFICE, Jacksonville, Fla., June 12, 1905.—Sealed proposals for dredging and removal of rock in Withlacoochee River Entrance, Florida, will be received here until 12 o'clock noon, July 12, 1905, and then publicly opened. Information furnished on application. FRANCIS R. SHUNK, Major, Engrs. 24-4t

ELECTRIC LIGHT PLANT.

Sealed proposals will be received by the Board of Public Service of the City of Youngstown, Ohio, until 12 o'clock noon, Wednesday, July 5, 1905, for one electric light plant "complete" for Water-Works Pumping Station and Filter Plant.

Plans and specifications may be seen and blank forms for bids had at the office of the Board of Public Service.

Bids shall contain the full name of every person interested, and accompanied by a sufficient bond or a certified check of $500.00, that, if the bid or any part thereof is accepted, a contract will be entered into and the performance of it properly secured.

The Board of Public Service reserves the right to reject any or all bids.

By order of the Board of Public Service.

G. T. PROSSER,
25-2t Clerk.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 14, 1905.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 24th day of July, 1905, and then opened, for the construction complete, except elevator, of the U. S. Post Office and Court House Extension at Fargo, North Dakota, in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Custodian at Fargo, North Dakota, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 25-2t

BITULITHIC—THE IDEAL ROADWAY

One reason why the Bitulithic Pavement maintains its popularity with cities which demand the best of roadways is, that the "Bitulithic" standard is never lowered. Attempts made to imitate the preeminent qualities of "Bitulithic" have resulted in dismal failures. Have none but the best and prevent disappointments which surely will follow the acceptance of something "just as good." If interested we will be glad to enlighten you on its superior qualities.

WARREN BROTHERS COMPANY, General Offices **93 Federal Street, Boston, Mass.**

Trade Marks: "Puritan" "Bitulithic" "Bitustone" "Bitrock" "Bituminous Macadam"

The other Personal Advertisements are on pages 35, 36, 37, 38, 39, 40, 41 of Advertisements and Construction News page 250

The INTER-POLE Variable Speed Motor

AN UNEQUALLED PERFORMANCE
Will not spark when overloaded 100% and reversed

Motor operates on a single voltage, and will run at constant speed at all loads; is reversible at will, and changes in speed can be instantly effected. The **speed** of the motor **remains constant** at any **set speed** between limits of **variation.**

Therefore the **Inter-Pole** is the ideal medium for driving machine-tools, absolutely solving this difficult proposition.

Runs equally well in either direction
Ball-Bearings, Light and Compact

Write to Nearest Office for Bulletins

The Electro-Dynamic Co., Main Office & Works, Bayonne, N. J.
New York Office, 11 Pine Street

PHILADELPHIA, Arcade Bldg. BOSTON, 164 Federal St. CHICAGO, Omaha Bldg.
ST. LOUIS, 1215 Pine St. CINCINNATI, 1326 Sycamore St.
LOS ANGELES, 116 E. 5th St. SAN FRANCISCO, 105 Main St. NORFOLK, Atlantic and Plume Sts.

ENG. NEWS.

CUTLER MAILING SYSTEM,

PATENTED, THE U. S. MAIL CHUTE THE ONLY MEANS OF MAILING LETTERS IN UPPER STORIES. INSTALLED IN CONNECTION WITH THE U. S. FREE COLLECTION SERVICE ONLY BY THE SOLE MAKERS, THE CUTLER MFG. CO., ROCHESTER, N. Y.

LIGHT AND POWER PLANT.

Pittsburg, Kansas, June 20th, 1905.

Bids are requested by The Home Light, Heat and Power Company of Pittsburg, Kansas, until 1.30 o'clock p. m., July 12th, 1905, for furnishing machinery and apparatus for its new Light and Power Station, as follows:

One 375 to 400-HP. Gas Engine, Direct Connected.

One 225 to 250-HP. Gas Engine, Direct Connected.

One 250-KW. Three-Phase, 2,300-Volt, 60-Cycle Generator, Direct Connected to above Gas Engine.

One 150-KW. Three-Phase, 2,300-Volt, 60-Cycle Generator, Direct Connected to above Gas Engine.

100 to 150-Light Three-Phase Series Arc Lamp Transformer and Regulator.

Marble Switchboard and Station Wiring, etc.

100 6.6. ampere Series Enclosed Arc Lamps.

3,600 Light Commercial Lighting Transformers in large sizes.

One Second-hand belted 125-KW., Three-Phase, 2,300-Volt, 60-Cycle, Generator, with Instruments.

Bids must be sealed and addressed to the Home Light, Heat and Power Company and endorsed on back, "Proposal for Light and Power Plant."

Plans and specifications are on file and may be seen at the office of the company at Pittsburg, Kansas, and at the office of Owen Ford, Consulting and Supervising Engineer for the company, Security Building, St. Louis, Missouri.

The Company reserves the right to reject any or all bids.

The Home Light, Heat and Power Company,
26-2t E. V. LANYON, President.

U. S. ENGINEER OFFICE, Portland, Ore., June 23, 1905.—Sealed proposals will be received here for excavation, concrete masonry work, etc., in connection with construction of portion of The Dalles-Celilo canal, Columbia River, Ore. and Wash., until 11 A. M., July 24, 1905, and then publicly opened. Information on application. W. C. LANGFITT Maj., Engrs. 26-4t

SEWERS.

North Platte, Neb.

The City of North Platte, Neb., is advertising for bids for construction of Sewer Mains. For information write

CHARLES SAMELSON,
26-1t City Clerk.

U. S. ENGR. OFFICE, Boston, Mass., June 22, 1905.—Sealed proposals for dredging in Weymouth Fore River, Mass., will be received here until 12 M., July 22, 1905, and then publicly opened. Information on application. W. S. STANTON, Col., Engrs. 26-4t

PROPOSALS FOR DESTRUCTOR.—Office Isthmian Canal Commission, Washington, D. C., June 24, 1905.—Sealed proposals, in triplicate, will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M., July 24, 1905, at which time they will be opened in public, for furnishing a Destructor at Bas Obispo, Isthmus of Panama. Blanks and full information may be obtained from this office, or offices of Asst. Purchasing Agent, 24 State St., N. Y. City, or Asst. Purchasing Agent, at Custom House, New Orleans, La., and blanks may be had at Chamber of Commerce, San Francisco, Cal., and Commercial Club, Mobile, Ala. D. W. ROSS, General Purchasing Officer. 26-4t

BRICK PAVEMENT.

Clarinda, Ia.

Sealed bids will be received by the City Clerk of Clarinda, Iowa, until 12 o'clock noon on July 7th, 1905, for the construction of approximately 10,380 sq. yds. of brick paving and 6,935 lineal feet of curbing.

Plans, specifications and form of contract may be obtained by remitting $1.75 to Wm. Christie, Jr., Engineer, Red Oak, Iowa. 26-1t

The Old Machinery or plant, or tools for which you have no present use might be sold or rented to some other reader of Engineering News by the investment of a few dollars on one of our "For Sale" pages.

$350 OFFERED IN PRIZES

To Stimulate the Production of Literature on the Subject of Concrete Block, Manufacture and Construction, the Engineering News Publishing Co. Announces the Offer of $350 in Prizes for the Best Papers on

The Manufacture of Concrete Blocks and Their Use in Building Construction

$350 OFFERED IN PRIZES*

THE author whose paper is judged to be the best will receive a prize of $250 The author whose paper is second in rank will receive a prize of $100.

The merit of the papers will be judged chiefly from the standpoint of their practical usefulness to an engineer who proposes to establish a local business in the manufacture of concrete blocks.

The length of the paper should be not less than 5,000 and not more than 10,000 words. It may be accompanied by any drawings or photographs which the author deems necessary for its illustration.

All manuscripts must be typewritten and must be received at the New York office of this company not later than July 31, 1905. They must be signed with some *nom de plume* and accompanied by a sealed envelope bearing on its outside the *nom de plume* and inside the name and address of the author of the paper. Manuscripts and all accompanying matter should be sent fully prepaid by express or registered mail, since their receipt by us cannot be acknowledged in the ordinary manner. They should be marked on the outside of the wrapper, "For the Concrete Block Prize Competition."

As soon as possible after the close of the competition, the manuscripts will be examined by the editors of *Engineering News*, and from the whole number offered, the five best manuscripts will be selected for submission to a jury consisting of Messrs. Robert W. Lesley, Past President of the American Cement Manufacturers' Association; Richard L. Humphrey, President of the Cement Users' Association; and Prof. Edgar Marburg, Secretary of the American Society of Testing Materials. In case the editors experience difficulty in making the primary selection, a larger number than five may be submitted to this jury.

As soon as a selection is made by the jury, the sealed envelopes will be opened and public announcement made of the result of the competition. The prize articles will be published in *Engineering News* and in the *Cement Age*. The Engineering News Publishing Company will have the right also to publish any other articles submitted in the competition and not awarded a prize, or any portions of such articles, paying the author for the matter so used at our regular rates for contributed articles. The right is also reserved to copyright the prize articles or others accepted for publication; and the matter may later be published in book form.

See *Engineering News* of March 16 and March 23, 1905, for editorials relating to the demand for information concerning concrete blocks.

*The sum of $225 will be paid to the winners by the Engineering News Publishing Co., which has instituted the competition, and $125 by the publishers of the *Cement Age*.

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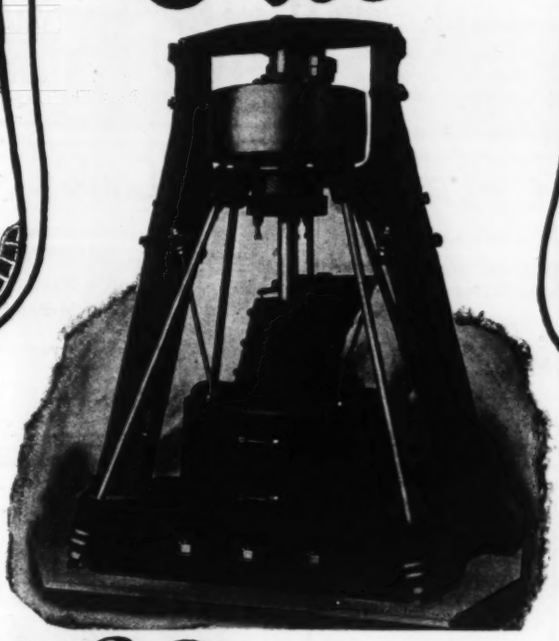
220 BROADWAY, NEW YORK

For other Proposal Advertisements see pages 35, 36, 37, 38, 39, 40, 41. of Advertisements and Construction News page 250



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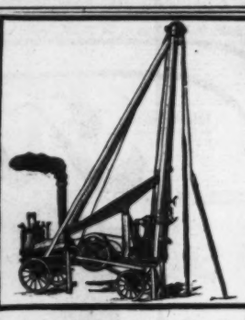

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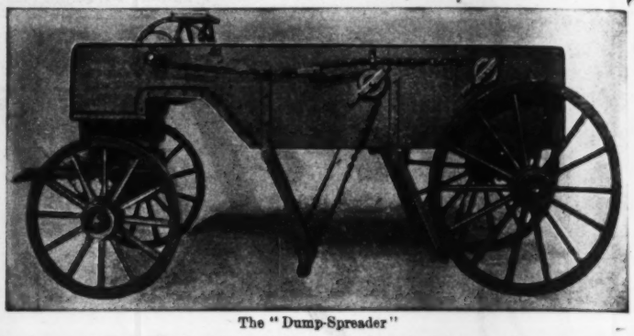

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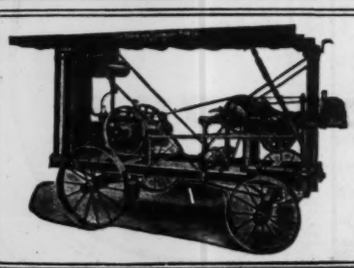

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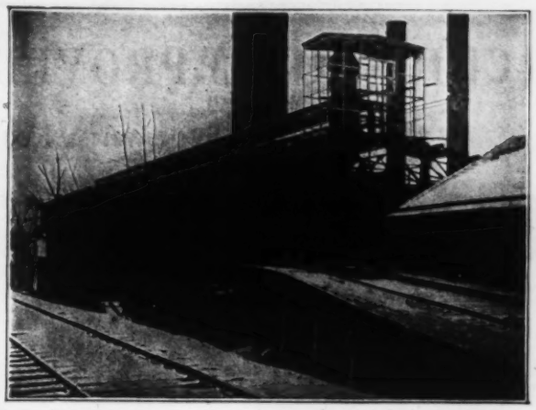
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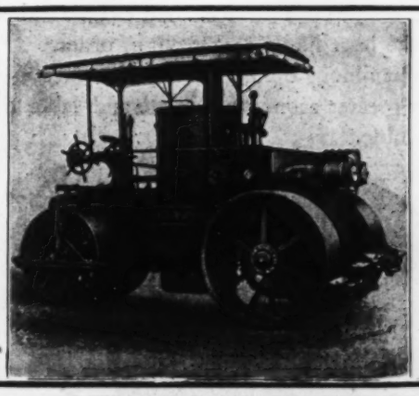

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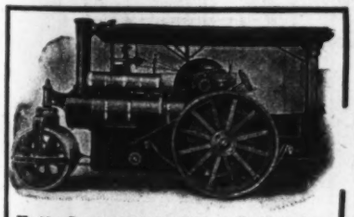

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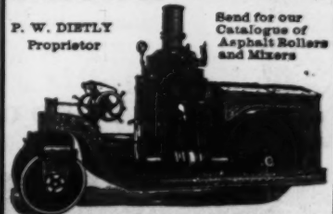

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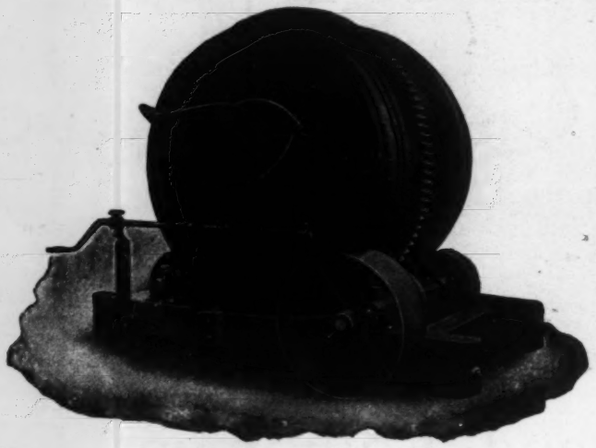

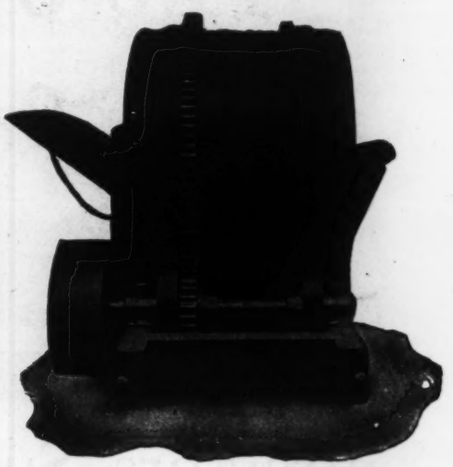

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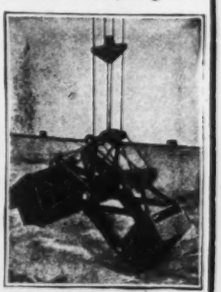

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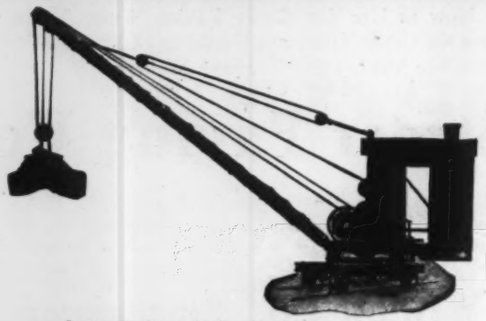

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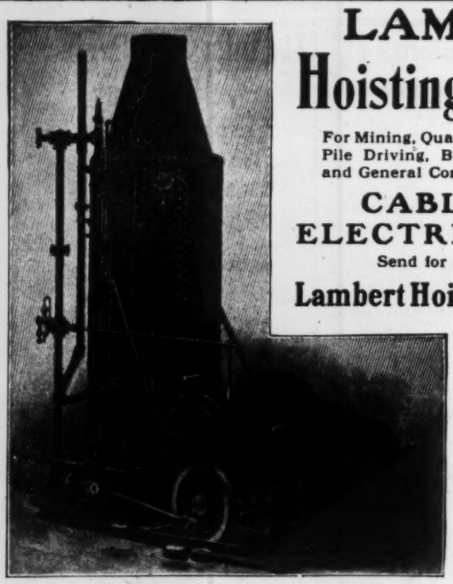

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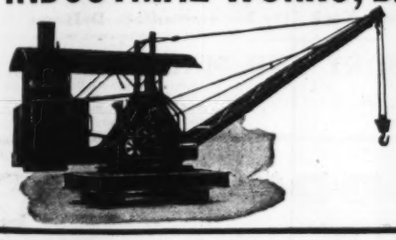

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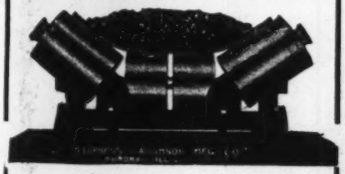

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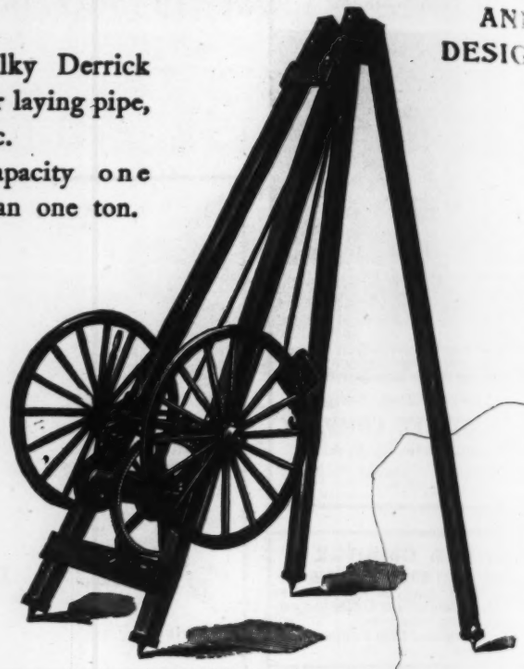

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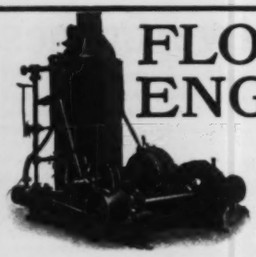

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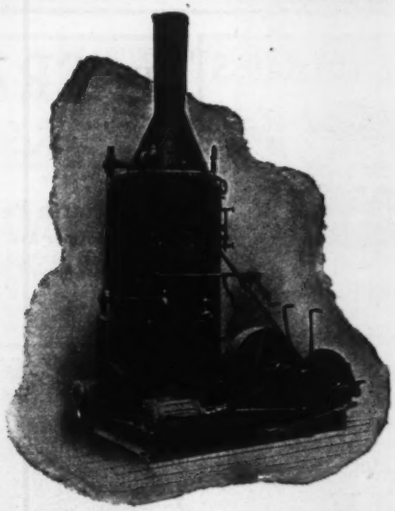

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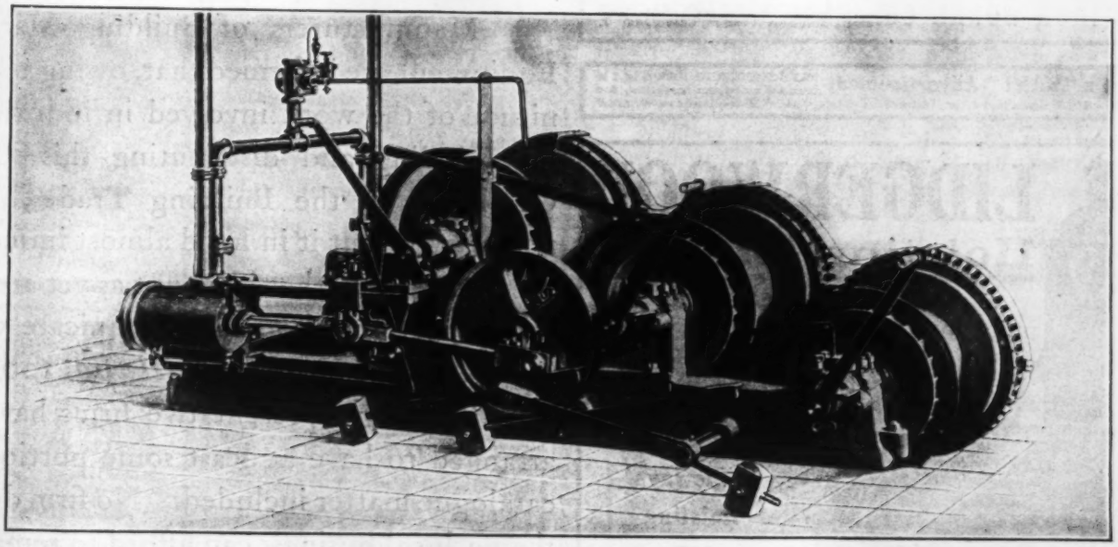

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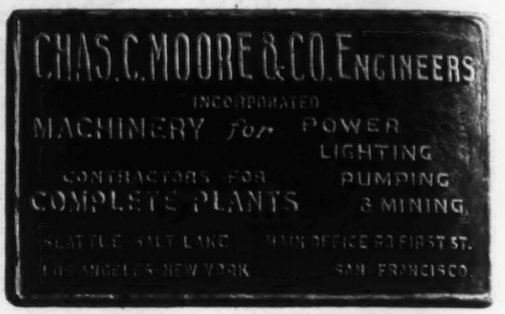

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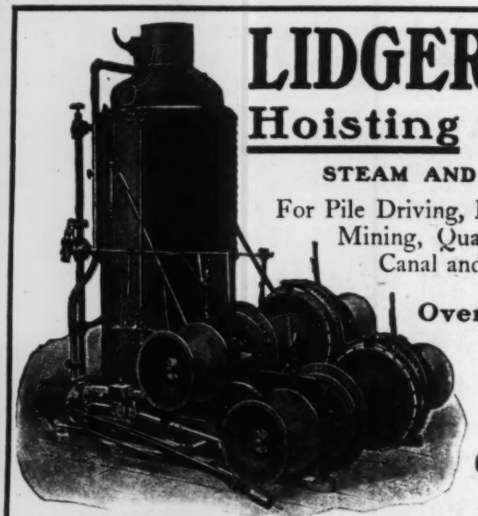

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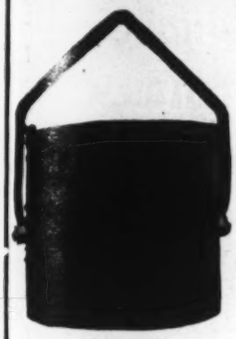

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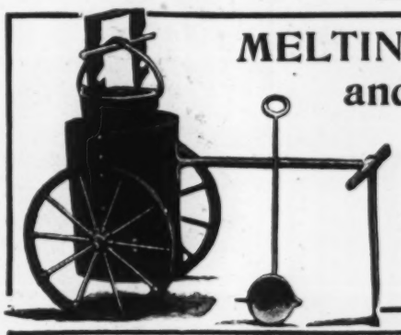

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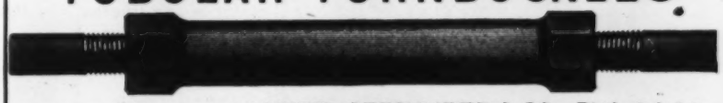

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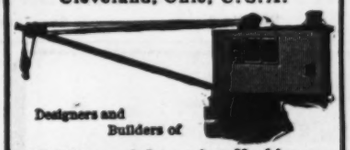

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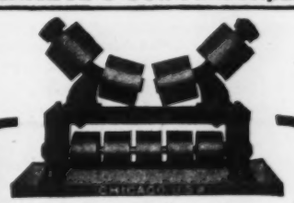

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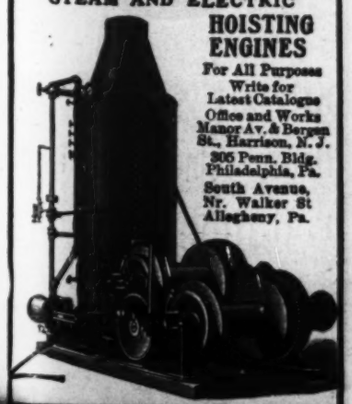

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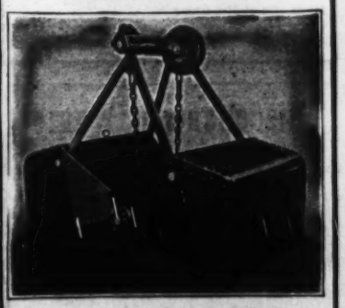

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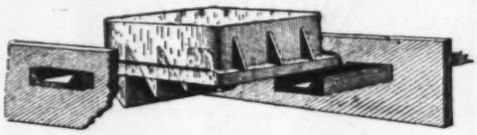

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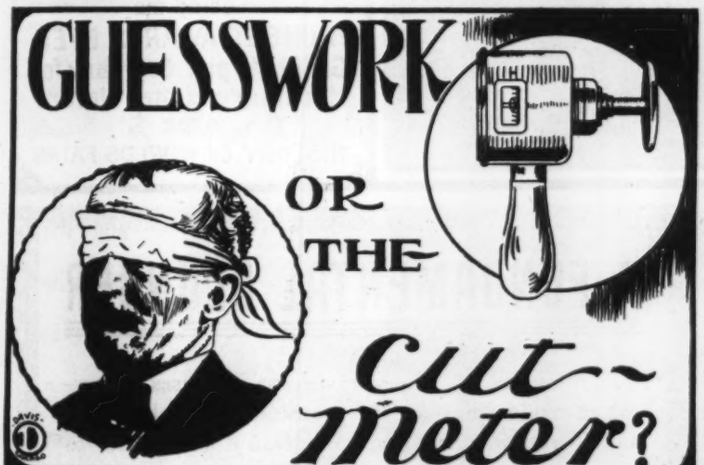

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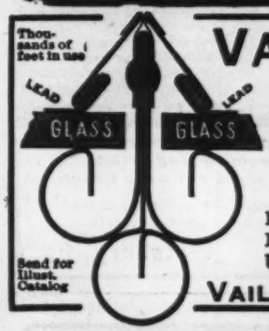

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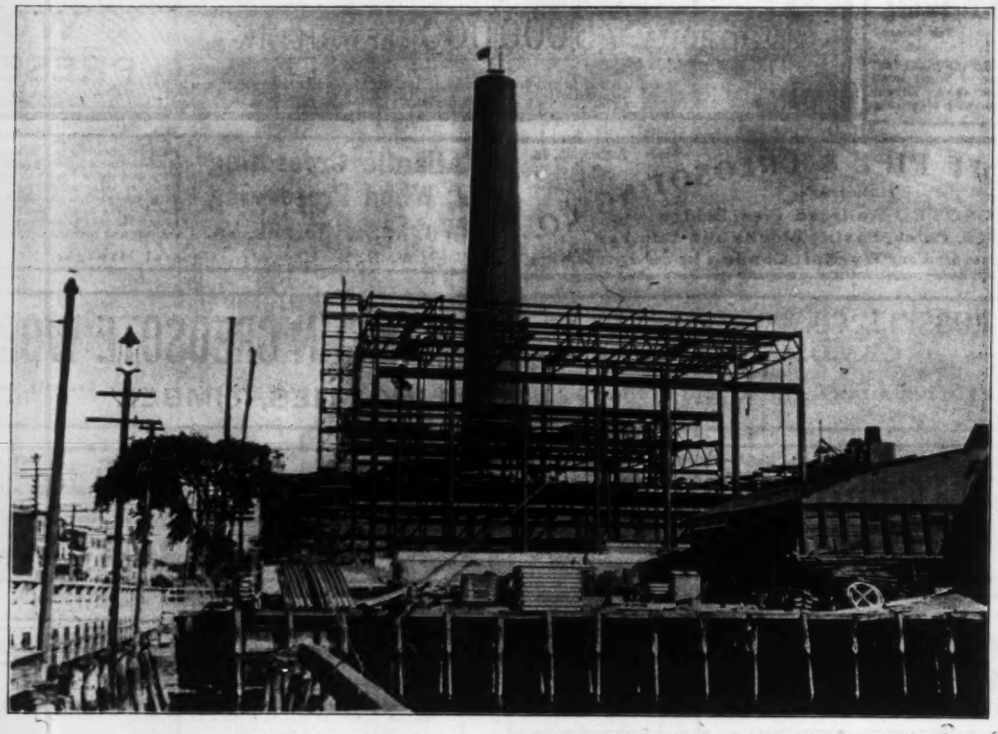

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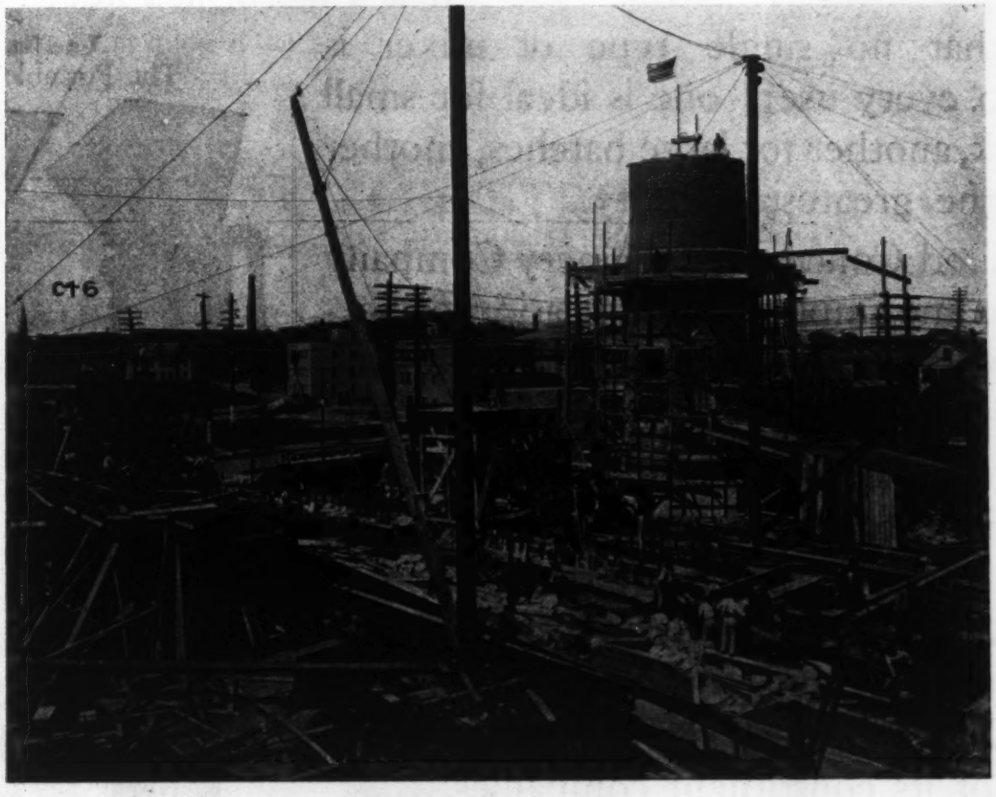
The charge for such service is a fixed sum agreed upon in advance and when the operation in hand is completed, the cost of the department is eliminated. In other words, we offer the services of a fully trained and highly organized construction department by the job instead of by the year. We solicit an opportunity of spreading before those contemplating construction the details of our system. It is a system from which red tape has been eliminated.



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The effort of the sales department will be concentrated in an endeavor to discover and satisfy the precise requirements of each customer.

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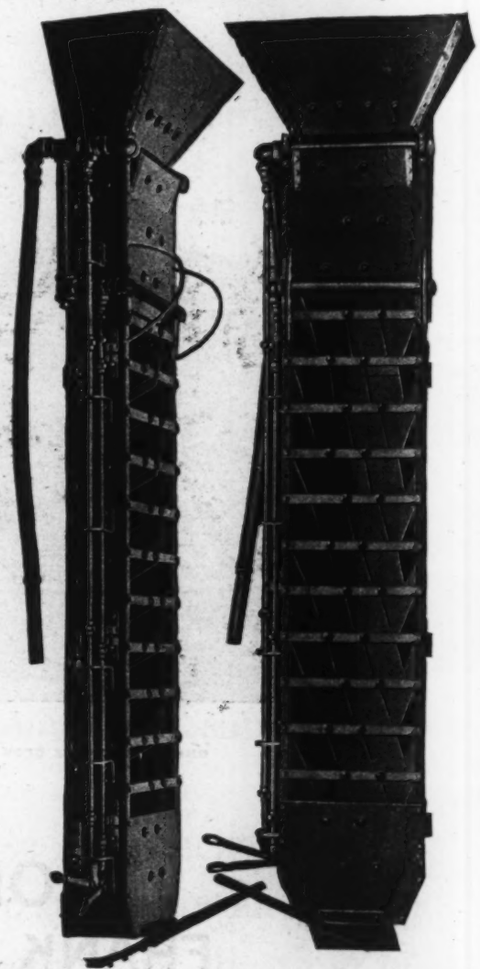

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As the quality and rapidity of the concrete work of this company rests entirely on the personality of its members, our strongest argument is a statement of its personnel, composed of well-known experts in their different branches of the concrete industry.

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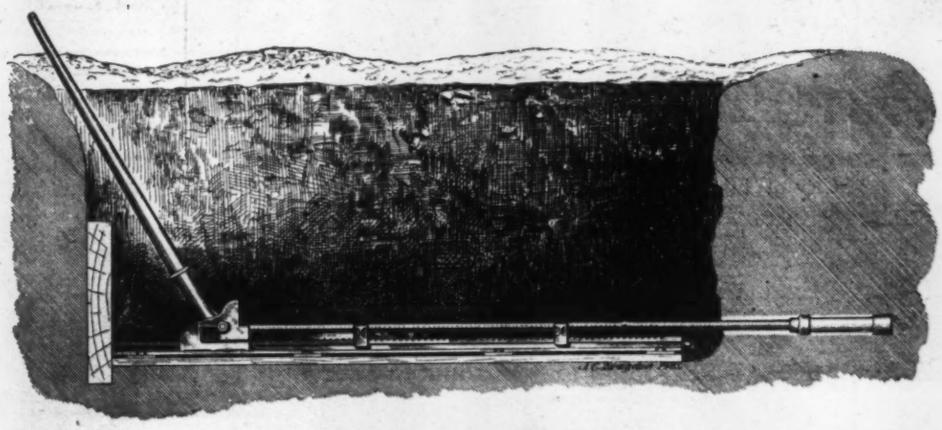

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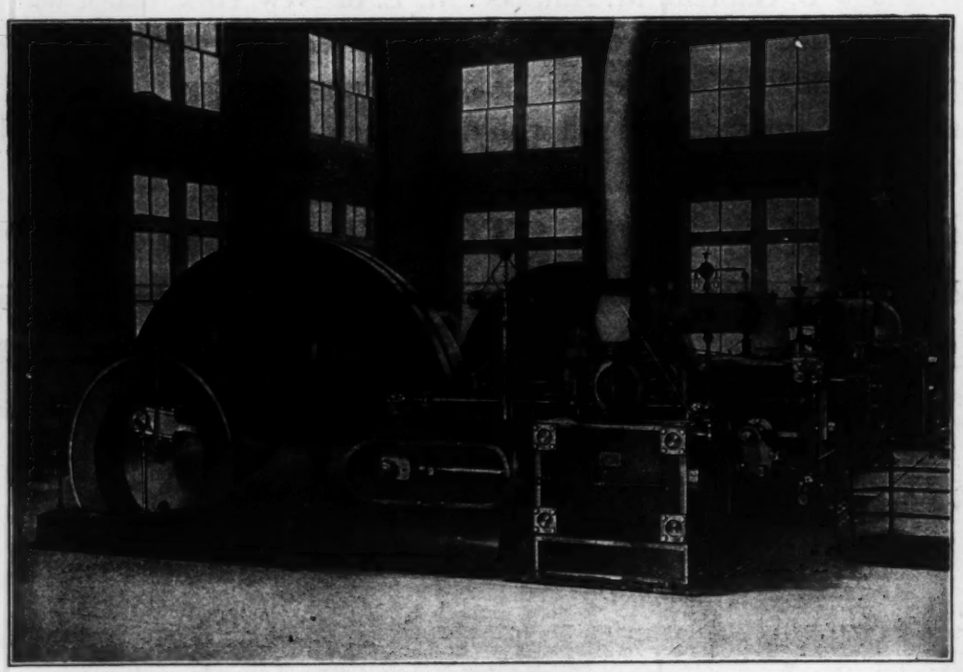

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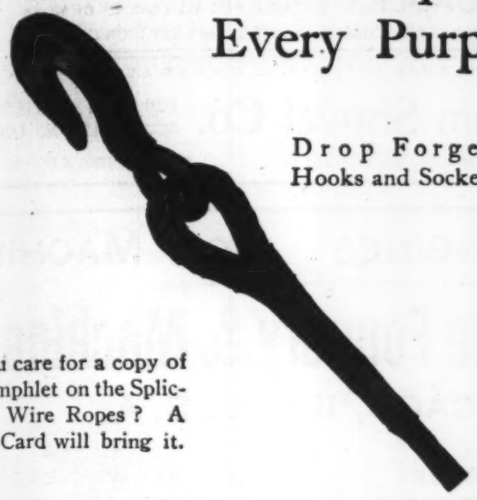

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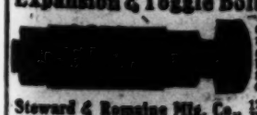

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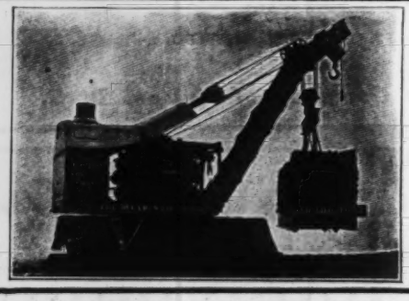

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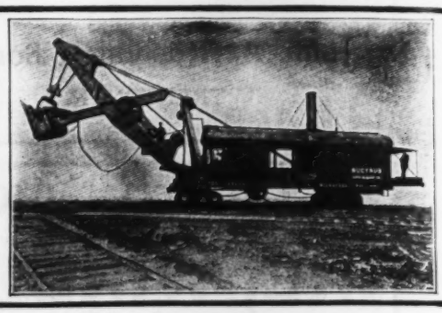

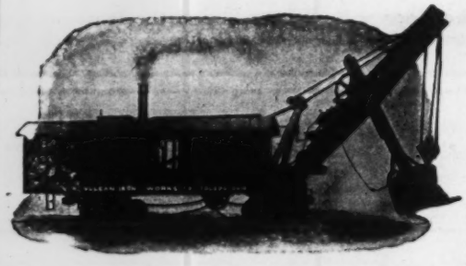

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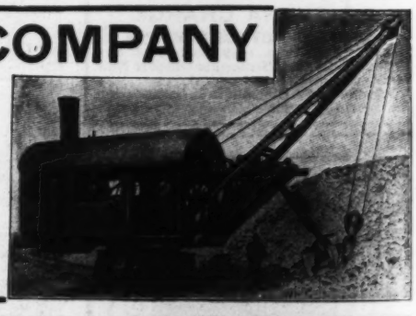

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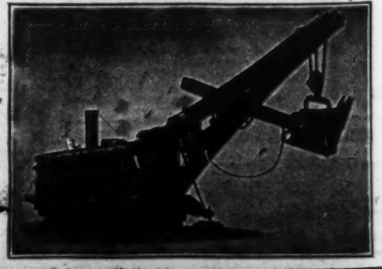

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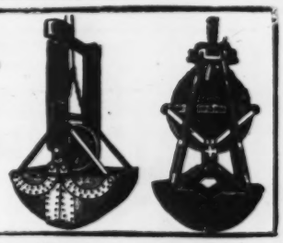

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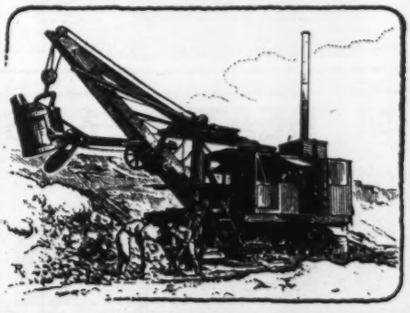

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VULCAN IRON WORKS, Chicago. Pensacola, Fla., Jan. 18th, 1900

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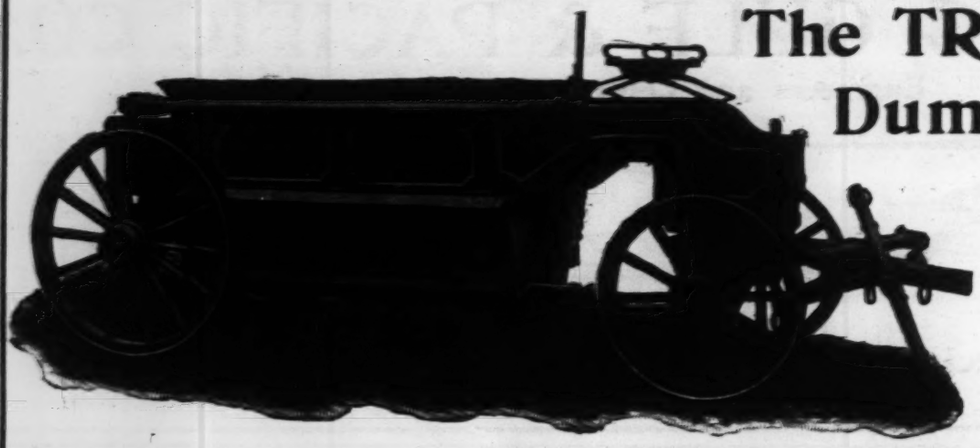

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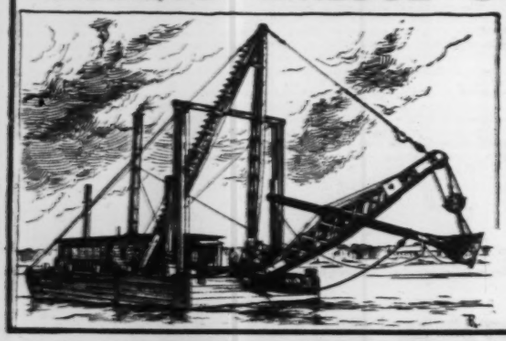

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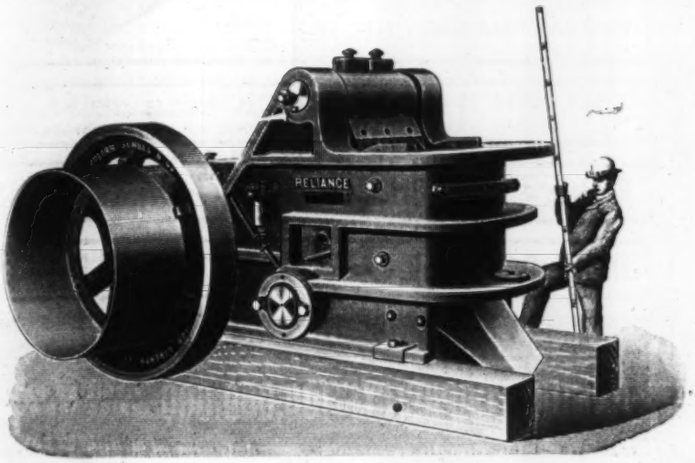

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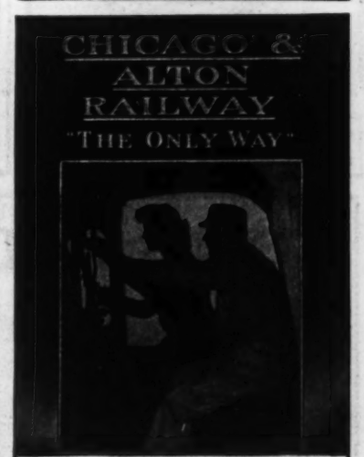

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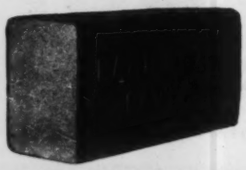

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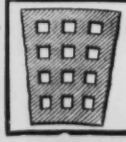

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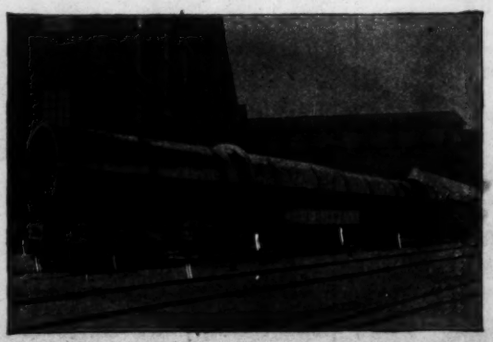

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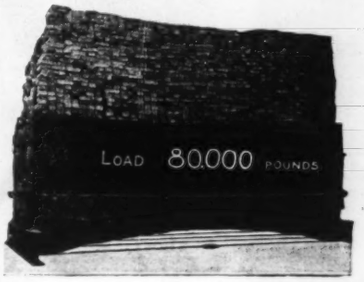

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IS THE

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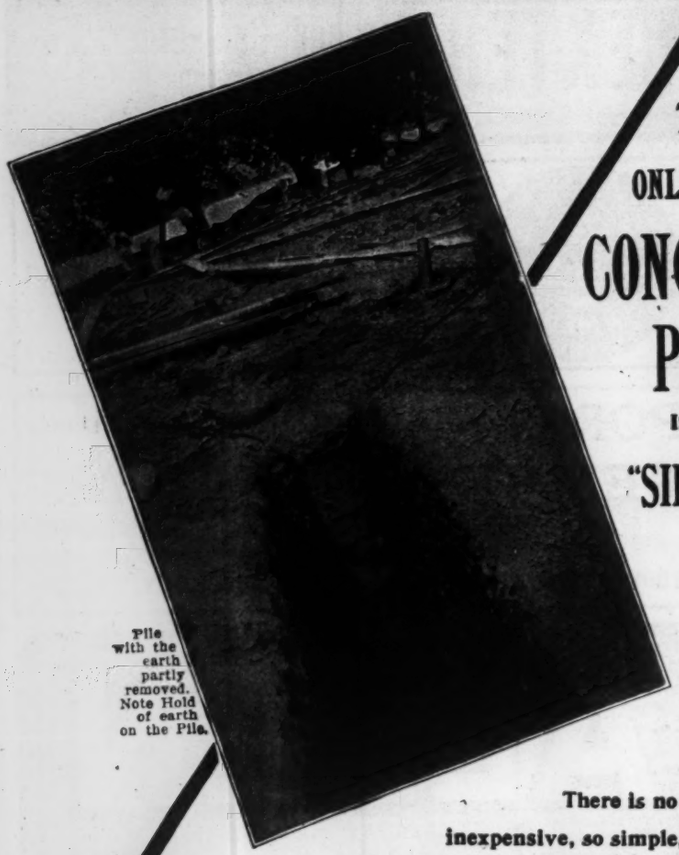
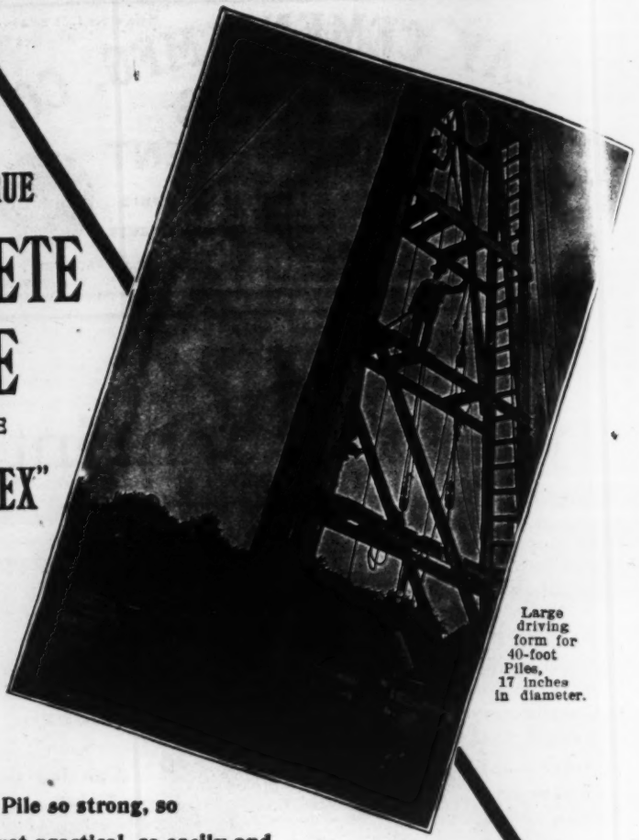


Pile with the earth partly removed. Note Hold of earth on the Pile.



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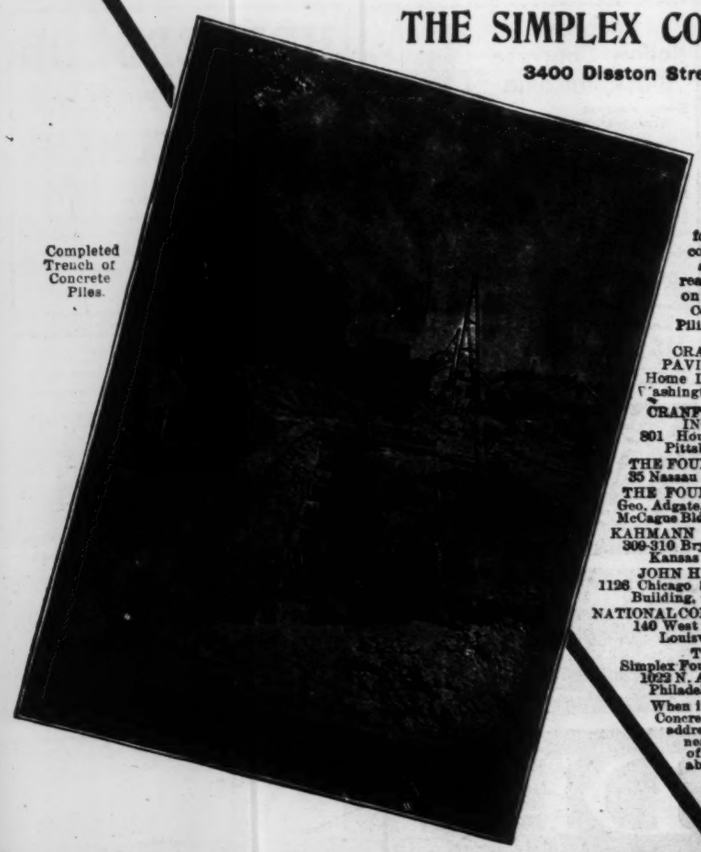

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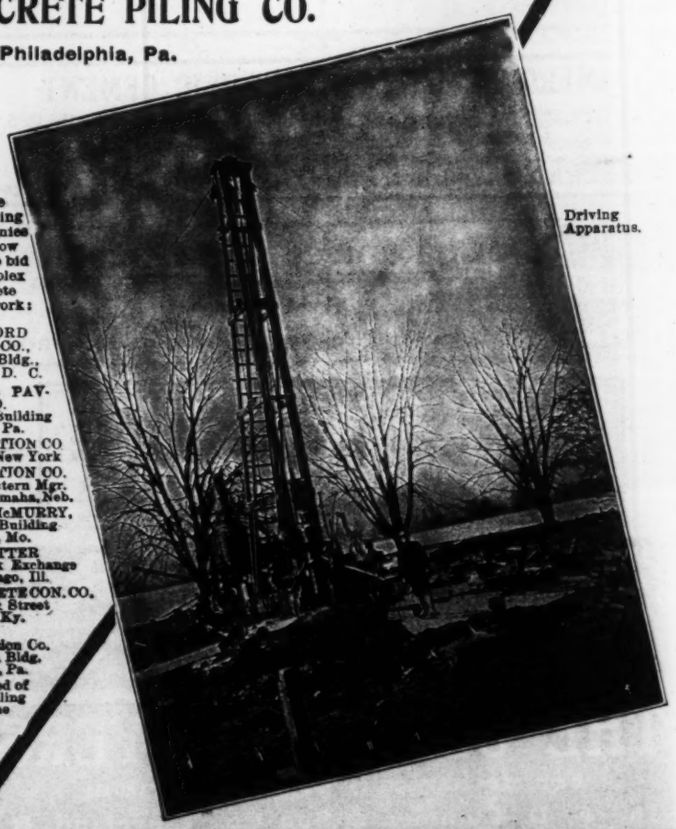

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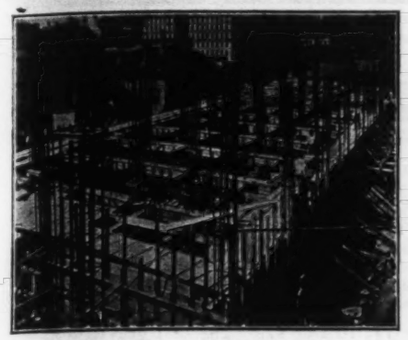

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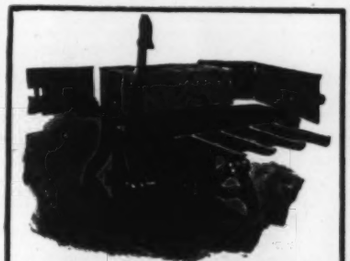

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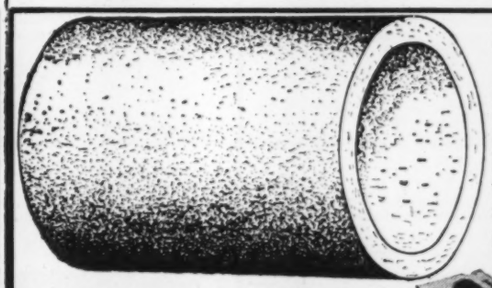

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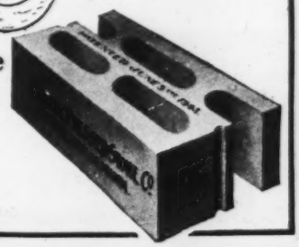

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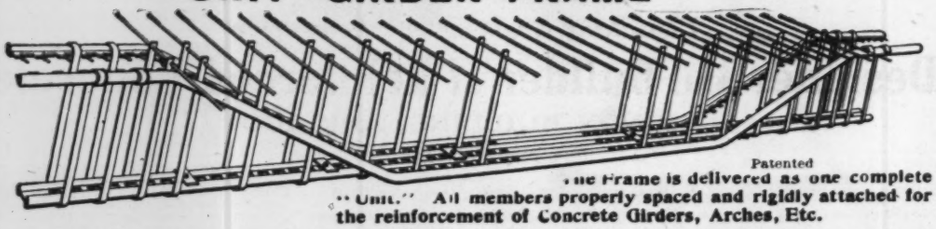

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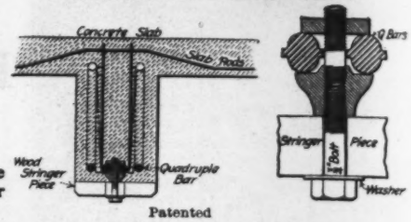

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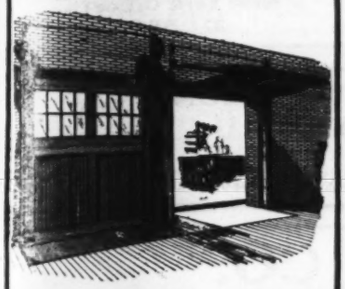

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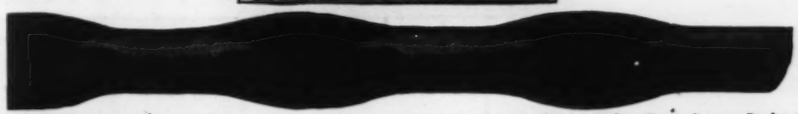

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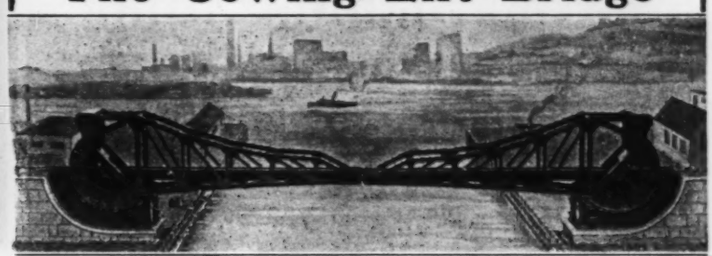

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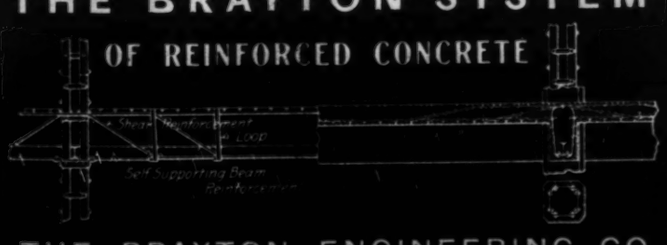

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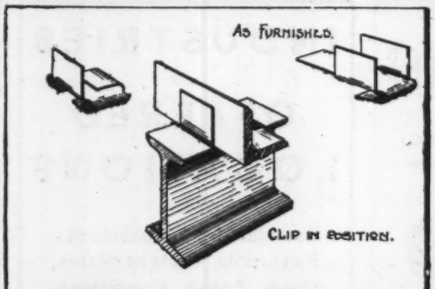

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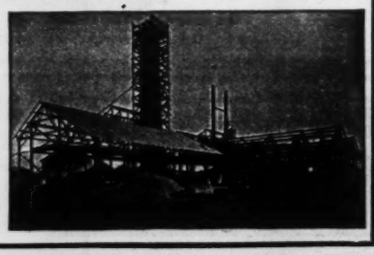

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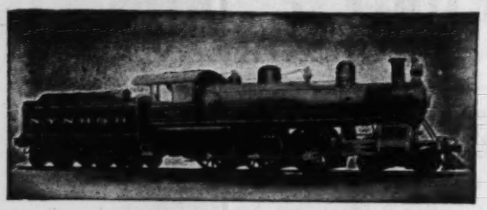

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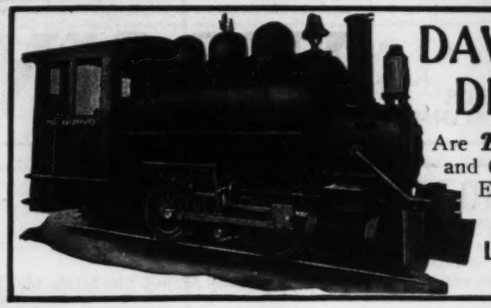

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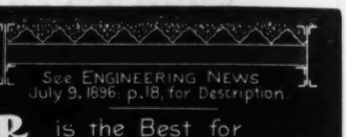

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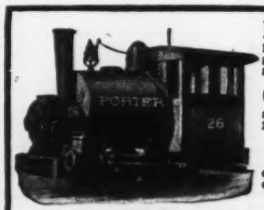

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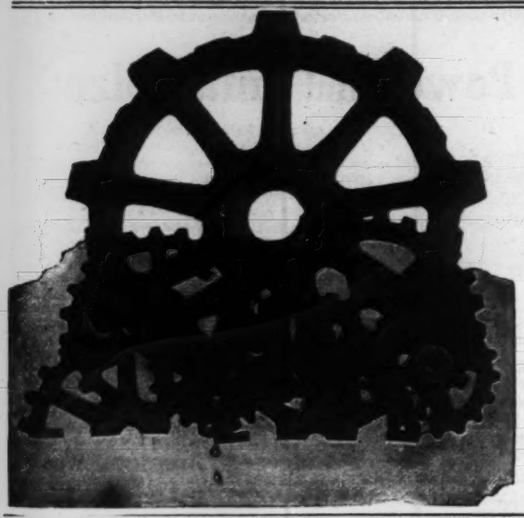

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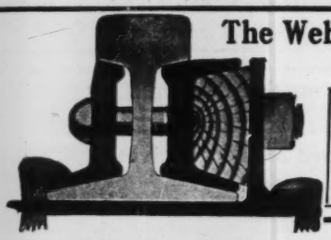

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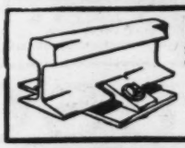

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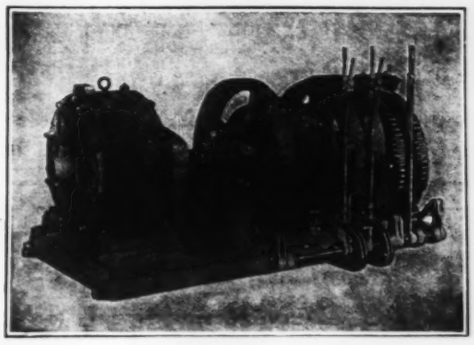

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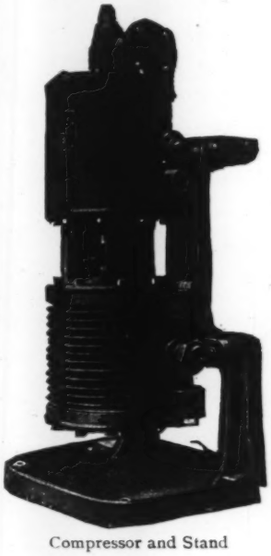

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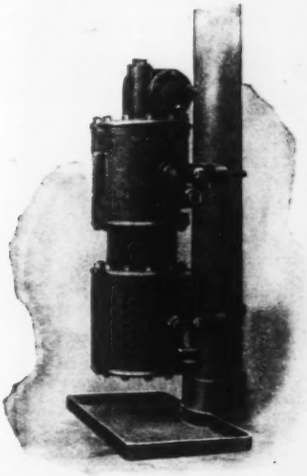

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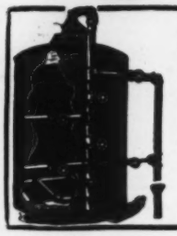
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